承認書 APPROVAL SHEET

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1216

客戶料號

Cus. P/N: 1709103100

規格敘述

DESCRIPTION: AUDIO CABLE 310mm

審 核	業 務	品 保	工程
Approved By	Sales Dept	QA Dept	Engineering Dept
王俊偉	張全生	劉江華	楊仁貴

客戶簽章

Customer Signature:

審 核	核 對	檢 驗
Approved By	Checked By	Tested By

飛偉科技有限公司 FLYINGWAY TECH CO., LTD

Address:新北市永和區中和路345號7F-4

TEL:02-22311313 FAX:02-22311020

CONTACT: Chino Wang

E-Mail:chino@flyingwaytech.com.tw

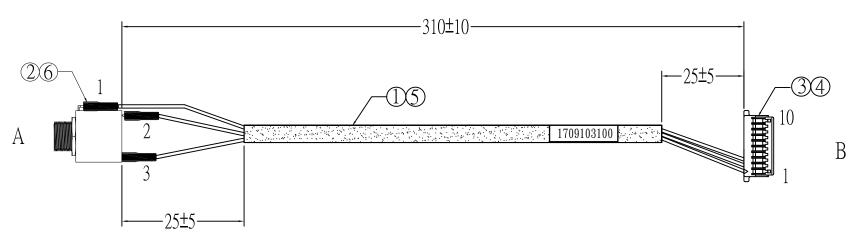
Cellphone: 0983588528

DATE: 2019/10/29

RoHS Compliant

Pin對照表

А	1	2	3
В	3	1	2
顏色	黑	棕	紅



附上螺帽,不用鎖在PHONE JCAK上

6	套管: L=10mm 厚 黑	3	pcs	WORE或同級品
5	套管: L=260mm 薄 黑	1	pcs	WORE或同級品
4	TER:11002TOP-2E	3	pcs	JCTC或同級品
3	HSG:11002H00-10P	1	pcs	JCTC或同級品
2	3.5mm PHONE JACK:SCJ311M1NXS1B00G	1	pcs	旭全 或同級品
1	線材:UL1571#28 OD=0.8 黑;棕;紅各1	共3	pcs	瑞興或同級品
NO	品 名 規 格	數量	單位	生產廠商

客戶工程師	Jimmy	
版次	變更內容	變更日期
A	新發行	2019/04/19
В	修改PIN位	2019/07/24
		_

飛 偉 科 技 有 限 公 司 TEL:02-2231-1313 FAX:02-2231-1020 E-MAIL:chino@flyingwaytech.com. tw

TITLE:

AUDIO CABLE 310mm

FW P/N: FWAA-1216

CUS. P/N: 1709103100

REV: B DWG BY: Silvia CHECKED BY: Chino DATE: 2019/07/24

了 UL 1571 HOOK-UP WIRE 80℃ 30V 環保 SR-PVC 電子線

UL Subject 758

說明:

●導體使用單條或絞線最小至 50AWG 裸鋼或鍍錫銅

●環保 SR-PVC 絕緣

●額定溫度:80℃,額定電壓:30Volts

●可通過 UL VW-1 垂直型耐燃測試。

UL FILE NO:E108485

應用:

電子設備二次迴路中內部連接用線

Applications:

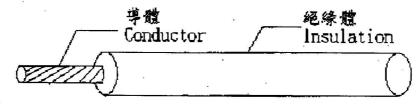
•Internal wiring in electronic equipments

Product Description:

- Tinned, annealed, attended or solid copper conductor, MIN,50AWG
- Lead FreeSR- PVC insulation.
- •Rated temperature: 80°C, Rated voltage: 30 volts.
- Uniform thickness of wire to ensure easy stripping and cutting
- Passes UL VW-1 vertical flame test.

構造及電氣性能

stucture & electric properties(UL STANDARD 758:外徑 0.70mm 以下不印字)



	額	定	導	蔻	絕緣	體		最大導體	最小絕緣	絕緣耐造
	Ran			nductor	Insulat		公差值	阻抗	阻抗	壓(VAC/min)
UL	溫度	電 壓	線號		厚 度	外徑	Tolerance	Maximum	Minimum.	Insulation
1571	Temp	Voltage	AWG	NQ./mm	Thickness	O.D	. Mm	Conductor	Insulation	Potential
	°C	V			mm	mm		Resistance Ω/km	Resistance MΩ/km	Strength
				7/0.060	0.00	0.60				
			34	7/0.060	0.20	0.60		728	ī	
			32	7/0.080	0.20	0.65		703	2	
多芯線 Stranded	•		30	7/0.100	0.20	0.70		397		
ande			28	7/0.127	0.20	0.80	e	248	5.	: 4
ed			26	7/0.160	0.20	0.90		152	,	, ,
,			24	11/0.160	0.20	1.05		88.6		
			22	17/0.160	0.20	1.20		62.5		
		}	20	21/0.180	0.20	1,50		39.5		
	80℃	30V	34	7/0.060	0.20	0.60	±0.05	728	15	500
			32	7/0.080	0.20	0.65		703	, .	•
先			30	7/0.100	0.20	0.70		397		
先級後銀 (ATC)			28	7/0.127	0.20	0.80		248		
分號			26	7/0.160	0.20	0.90		152		
		·	24	7/0.200	0.20	1.05		88.6	5	
25	***		30	1/0.254	0.20	0.65		377	,	
單芯線 (TA)			28	1/0.320	0.20	0.75		245		i i
· 線			26	1/0.404	Ó.20	0.85		155		

3

瑞興電線電纜制品廠

REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承認書

SPECIFICATION

型號 STYLE							UL	1571			
額	真定溫度/電壓 RATING	TEMP./V	OLT.				80°C	/30V			
11	線號 SIZE		AWG	34	32	30	28	26	24	22	20
	芯數 NUMB	ER	NO.	7	7	7	7	7	11	17	21
導體	銅線直徑 DIAM	IETER	MM	0.060	0.080	0.100	0.127	0.160	0.160	0.160	0180
導體 CONDUCTOR	最小銅線直徑 MIN.DIAMET		MM	0.054	0.074	0.090	0.117	0.150	0.150	0.150	0.170
DUC.	導體截面積 CROSS SEC -	AVG.	CM	39.7	64	100	159	253	404	640	1020
FOR	AREA OF COND	MIN.	CIVI	35.1	62.7	98	156	248	392	621	989
	綾距 LAY OF BU	NCH	INCH	0.40	0.40	0.40	0.50	0.60	0.70	0.80	1.25
	最大電阻 MAX.RESI	最大電阻 MAX.RESISTANCE		728	703	397	248	152	88.6	62.5	39.5
絕	完成外徑 O.D. (±0.10)		MM	0.60	0.65	0.70	0.80	0.90	1.05	1.20	1.50
線 體	絕緣體厚度	AVG	107				0.	20			
USU	INSULATION THICKNESS	MIN	MM	0.15							
絕緣體 INSULATION	外被厚度 JACKET	AVG	MM	/							
ž	THICKNESS	MIN	IVIIVI				1				
最小絕緣 INSULA	大電阻 TION ESISTANCE		$M\Omega/KM$		15						
火花試駁	SPARK TEST		KV				2KV/0	.15sec			
最小伸長	基率 ELONGATION		%				100)%			
TENSIL	最小抗張強度 STRENGTH		PSI				15	00			
	送伸長率 ER AGING)		%			OF	UNAGED	65			
	送抗張強度 TEN.ST.(A	AFTER	%			OF I	UNAGED	70			
	老化試驗溫度/條件 AGING TEMP./TIME						113°C/168	BHRS			
耐燃燒試驗 FIAME TEST				VW-I							
高溫纏繞	高溫纏繞試驗 HEAT SHOCK TEST					80°C/1F	IR 1.60	MM MAN	NDREL		
低溫纏繞	低溫纏繞試驗 COLD BEND TEST			-10°C/1HR 3.2MM MANDREL							
耐電壓試 NSULAT	.驗 I ION POTENTIALST						500VA	C/min			

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
REVISION		洪夹	李荣	劉安輝

2600 N.W. Lake Road Camas, WA 98607-0542 United States Country Code (360) 817-5500 FAX No. (360) B17-6000 hilp://www.ul.com

Underwriters iboratories Inc.@

File E108485

Vol. 2

Issued: 01-17-97

Revised:

5-9-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

IPONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer: (342072-001)

REI HSING WIRE & CABLE CO LTD TSENG TEN INDUSTRIAL PARK

CHEN KOU

CHANG AN TOWN

DONGGUAN GUANGDONG CHINA

Applicant: (559504-001)

REI HSING WIRE CO LTD

56-5 JIUN-ING ST

SHUH-LIN CITY TAIPEI HSIEN

TAIWAN

Recognized Company: (559504-001):

SAME AS APPLICANT

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters 1 aboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such produes which comply with this Procedure and any other applicable

The Procedure ontains information for the use of the above named Manufacturer and the representative: of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the lanufacturer with the understanding that it is not to be copied, either wholly or in p: "t, and that it will be returned to Underwriters Laboratories Inc. upon

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UNDERWRITERS LABORATORIES INC.

J. J. Ritchie

Vice President

Laboratory Management and Operations-profil organization

dedicated to public safety and committed to quality service

File E108485

Vol. 2

Sec. 1

Page 1

Issued: 1997-01-17 Revised: 2007-06-19

TABLE OF AUTHORIZED STYLES SINGLE-CONDUCTOR THERMOPLASTIC INSULATED WIRE

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F	1007	1997-06-04	F	1333	2003-12-08	F	1723	2003-12-08	- Luga	100000
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F	1011	1997-06-04		1429	2004-11-24	F	1789	2004-11-24		
F	1013	1997-06-04	F	1430	1999-04-29	F	10064	2003-12-08		
F	1015	1997-06-04		1431	2004-11-24		10070	2006-07-21		
F	1028	1997-06-04	F	1497	1997-06-04		10109	2004-05-04		
	1032	2001-06-19	F	1500	1997-06-04		10198	2006-07-21		
(F)	1061	1997-01-17		1516	2004-05-04		10362	2003-12-08		
4	1080	2003-01-03		1533	2000-11-09		10368	2004-11-24	us de	
F	1095	1997-06-04	F	1538	2003-12-08		10369	2004-11-24		
T.	1164,	2004-05-04		1569	2003-06-17	Ŀ				
-	1180	2004-05-04	F	1571	1997-01-17					
	1185	2000-11-09	F	1577	2003-12-08					
	1198	2004-05-04	F	1581	2001-05-09					
100 %	1199	2004-05-04		1584	2004-05-04					
	1212	2004-05-04	F	1589	2007-06-19			×		
81	1213	2004-05-04		1591	2003-12-08					
2	1226	2003-12-08		1592	2003-12-08					
4	1227	2003-12-08		1617	1997-01-17					
F	1283	2003-02-27		1618	2003-02-27					
	1285	2003-01-08		1672	2003-02-27					
Ē	1316	2003-02-27		1674	2003-02-27		26	No.		
F	1330	2003-12-08	F	1685	2004-11-24		120	L程部**		t _e :
F	1331	2003-12-08		1709	2003-12-08			09-3-19		1 3
F	1332	2003-12-08		1710	2003-12-08		發	行章		



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Date: 30 Jan 2019

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SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-01

Client Ref. Info. : I-PE-01; I-PP-01; I-PU-01; I-RU-01; I-TPR-01; I-PE-01

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

中国·广州·经济技术开发区科学城科珠路198号

(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Date: 30 Jan 2019

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.002	White liquid	6
SN2	CAN19-014883.005	White liquid	181
SN3	CAN19-014883.008	White liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	005
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	005
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	005
I	4	Anthracene	120-12-7	0.050	005
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	005
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	005
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	005
I	8	Cobalt dichloride*	7646-79-9	0.005	005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	005
I	10	Diarsenic trioxide*	1327-53-3	0.005	005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	005
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	005
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	005
I	15	Triethyl arsenate*	15606-95-8	0.005	005
II	16	2,4-Dinitrotoluene	121-14-2	0.050	005
II	17	Acrylamide	79-06-1	0.050	005
II	18	Anthracene oil**	90640-80-5	0.050	005
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	005
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	005
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	005
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	005
II	25	Lead chromate*	7758-97-6	0.005	005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	005
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	005
III	29	Ammonium dichromate*	7789-09-5	0.005	005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	005
Ш	32	Potassium chromate*	7789-00-6	0.005	005
Ш	33	Potassium dichromate*	7778-50-9	0.005	005
III	34	Sodium chromate*	7775-11-3	0.005	005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	005
Ш	36	Trichloroethylene	79-01-6	0.050	005
IV	37	2-Ethoxyethanol	110-80-5	0.050	005
IV	38	2-Methoxyethanol	109-86-4	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	005
IV	40	Chromium trioxide*	1333-82-0	0.005	005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	005
V	45	1,2,3-trichloropropane	96-18-4	0.050	005
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	005
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	005
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	005
V	49	2-ethoxyethyl acetate	111-15-9	0.050	005
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	005
V	51	Strontium chromate*	7789-06-2	0.005	005
VI	52	1,2-Dichloroethane	107-06-2	0.050	005
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	005
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	005
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	005
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	005
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	005
VI	60	Calcium arsenate*	7778-44-1	0.005	005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	005
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	005
VI	64	Lead dipicrate*	6477-64-1	0.005	005
VI	65	Lead styphnate*	15245-44-0	0.005	005
VI	66	N,N-dimethylacetamide	127-19-5	0.050	005
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	005
VI	68	Phenolphthalein	77-09-8	0.050	005
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	005
VI	70	Trilead diarsenate*	3687-31-8	0.005	005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	005
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	005
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	005
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	005
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	005
VII	78	Diboron trioxide*	1303-86-2	0.005	005
VII	79	Formamide	75-12-7	0.050	005
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	005
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	005
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	005
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	005
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	005
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	005
VIII	88	1-Bromopropane	106-94-5	0.050	005
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	005
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	005
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	005
VIII	93	4-Aminoazobenzene	60-09-3	0.050	005
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	005
VIII	95	4-Nonylphenol, branched and linear	-	0.050	005
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	005
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	005
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	005
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	005
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	005
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	005
VIII	103	Diethyl sulphate	64-67-5	0.050	005
VIII	104	Diisopentylphthalate	605-50-5	0.050	005
VIII	105	Dimethyl sulphate	77-78-1	0.050	005
VIII	106	Dinoseb	88-85-7	0.050	005
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	005
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	005
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	005
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	005
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	005
VIII	114	Lead cyanamidate*	20837-86-9	0.005	005
VIII	115	Lead dinitrate*	10099-74-8	0.005	005
VIII	116	Lead monoxide*	1317-36-8	0.005	005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	005
VIII	121	Methoxyacetic acid	625-45-6	0.050	005
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	005
VIII	123	N,N-dimethylformamide	68-12-2	0.050	005
VIII	124	N-Methylacetamide	79-16-3	0.050	005
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	005
VIII	126	o-Aminoazotoluene	97-56-3	0.050	005
VIII	127	o-Toluidine	95-53-4	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	005
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	005
VIII	134	Tetraethyllead*	78-00-2	0.005	005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	005
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	005
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	005
IX	141	Cadmium oxide*	1306-19-0	0.005	005
IX	142	Cadmium*	7440-43-9	0.005	005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	005
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	005
Х	145	Cadmium sulphide*	1306-23-6	0.005	005
Х	146	Dihexyl phthalate	84-75-3	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	005
Х	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	005
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	005
Х	150	Lead di(acetate)*	301-04-2	0.005	005
Х	151	Trixylyl phosphate	25155-23-1	0.050	005
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	005
ΧI	153	Cadmium chloride*	10108-64-2	0.005	005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005	005
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	005
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	005
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	005
XII	159	Cadmium fluoride*	7790-79-6	0.005	005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy l-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	005
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	005
XIV	164	1,3-propanesultone	1120-71-4	0.050	005
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	005
XIV	167	Nitrobenzene	98-95-3	0.050	005
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	005
XVI	171	4-Heptylphenol, branched and linear	-	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	005
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	005
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	005
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	005
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	005
XVIII	178	Cadmium carbonate*	513-78-0	0.005	005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	005
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	008
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	008
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	008
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	008
XIX	186	Disodium octaborate*	12008-41-2	0.005	008



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	008
XIX	188	Ethylenediamine	107-15-3	0.050	008
XIX	189	Lead*	7439-92-1	0.005	008
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	008
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	008
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	002
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	002
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	002
XX	195	Fluoranthene	206-44-0	0.050	002
XX	196	Phenanthrene	85-01-8	0.050	002
XX	197	Pyrene	129-00-0	0.050	002



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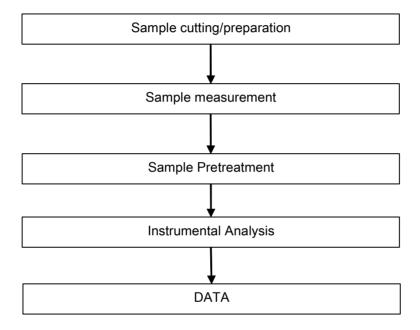
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SVHC Testing Flow Chart





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Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

This report is to supersede test report CANEC1910676513

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-02 Date of Sample Received: 05 Jun 2019

05 Jun 2019 - 12 Jun 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** SN₁ CAN19-106765.003 Black liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676519		Date: 21 Jun 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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No. CANEC1910676519

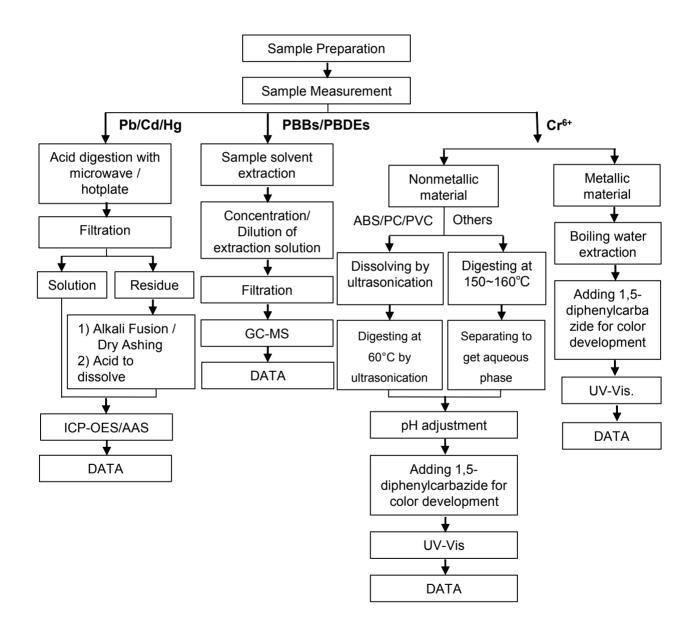
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Date: 21 Jun 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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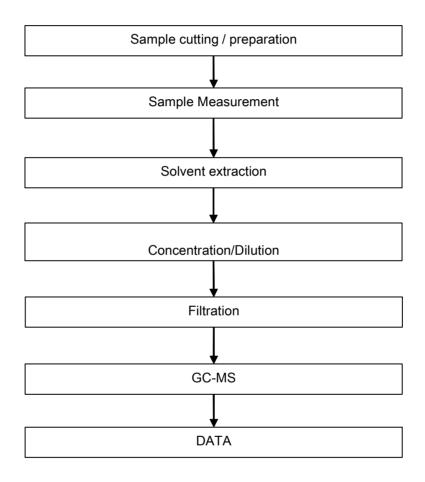
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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676519

Page 6 of 6

Date: 21 Jun 2019

Sample photo:



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Page 1 of 7

Report No. A2190175998101034

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BROWN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101034

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

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Report No. A2190175998101034 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL	
Lead(Pb)	N.D.	2 mg/kg	
Cadmium(Cd)	N.D.	2 mg/kg	
Mercury(Hg)	N.D.	2 mg/kg	
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg	
Tested Item(s)	Result	MDL	
Polybrominated Biphenyls(PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	



Report No. A2190175998101034

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	96 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Brown wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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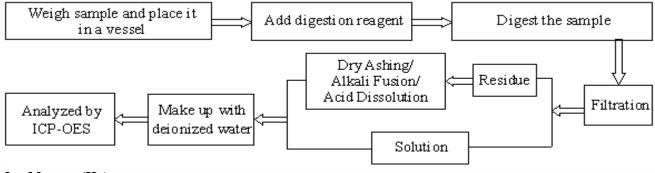


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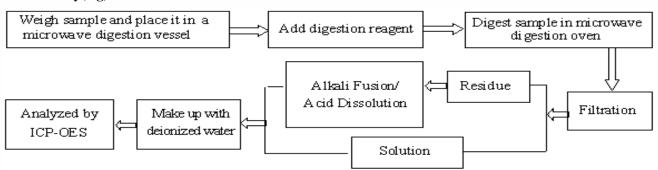
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



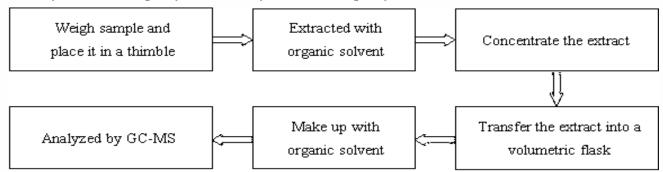
2. Mercury(Hg)

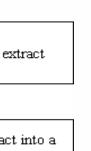


3. Hexavalent Chromium(Cr(VI))

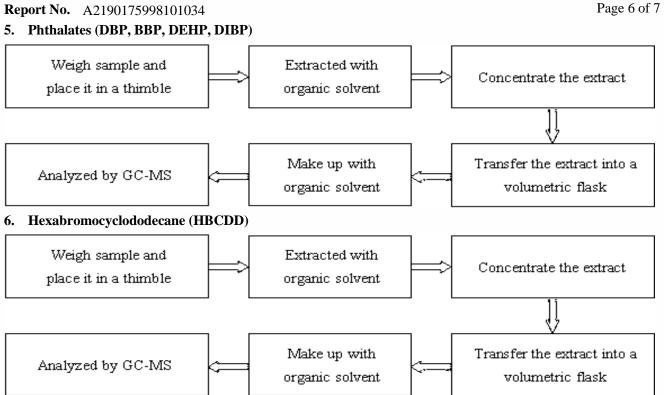


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101034

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.





Report No. A2190175998101013

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name RED PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

flill 7 hora

Hill Zheng

Technical Manager

Pori Xia Reviewed by

Jul. 18, 2019

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



Report No. A2190175998101013

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

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Report No. A2190175998101013 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101013

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Red wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

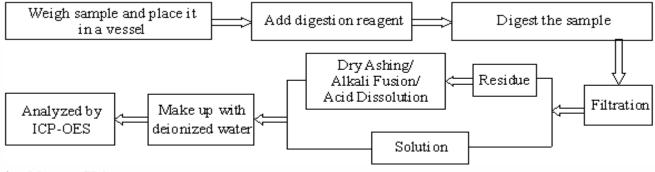


Report No. A2190175998101013

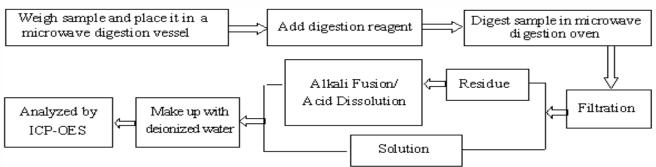
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



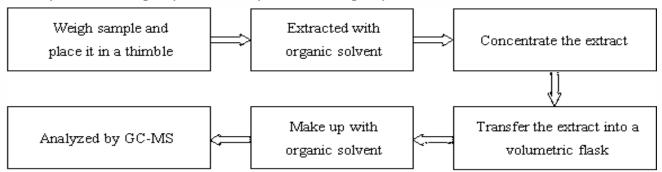
2. Mercury(Hg)



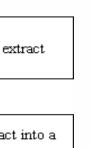
3. Hexavalent Chromium(Cr(VI))



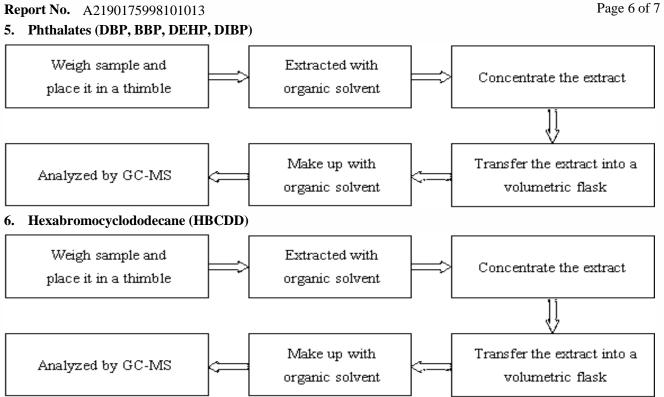
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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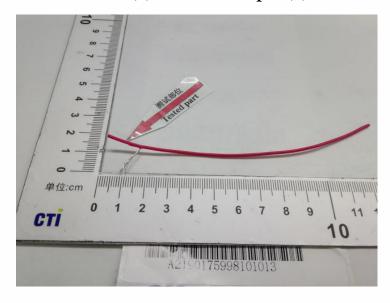
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Report No. A2190175998101013

Page 7 of 7

Photo(s) of the sample(s)



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Report No. A2190175998101010

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BLACK PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing

Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

ting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101010

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

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Report No. A2190175998101010 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101010

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	138 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Black wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

7/0

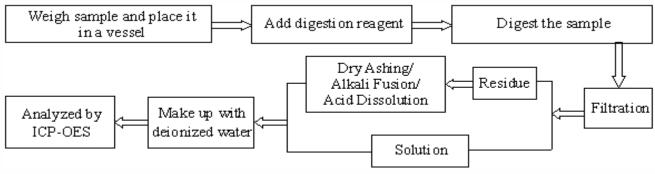


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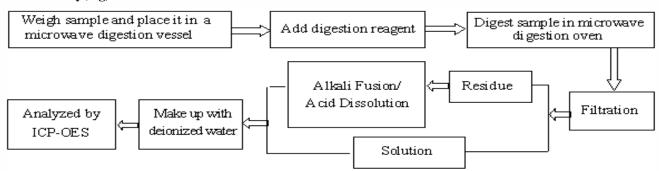
Page 5 of 7

Test Process

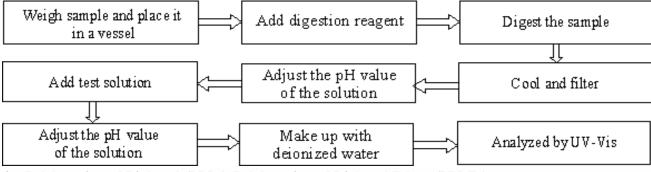
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



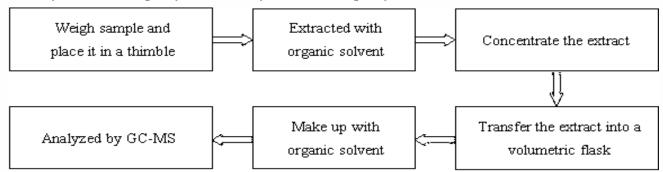
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

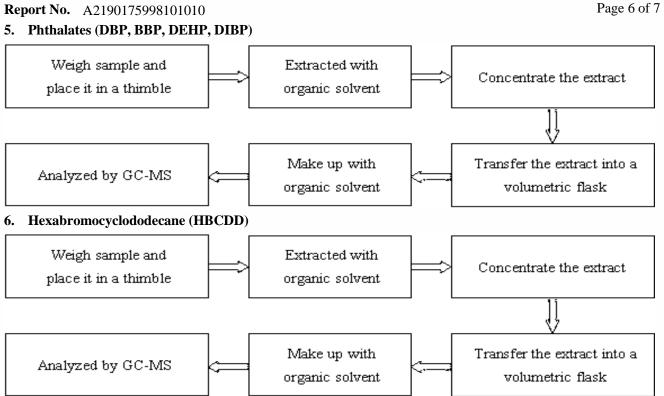


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101010

Page 7 of 7

Photo(s) of the sample(s)



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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 1 of 7

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

中国·广州·经济技术开发区科学城科珠路198号

Violet,Shi

Approved Signatory

Volet Shi



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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-040324.001 Copper colored metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1904032401		Date: 2	21 Mar 2019	Page 3 of 7
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND



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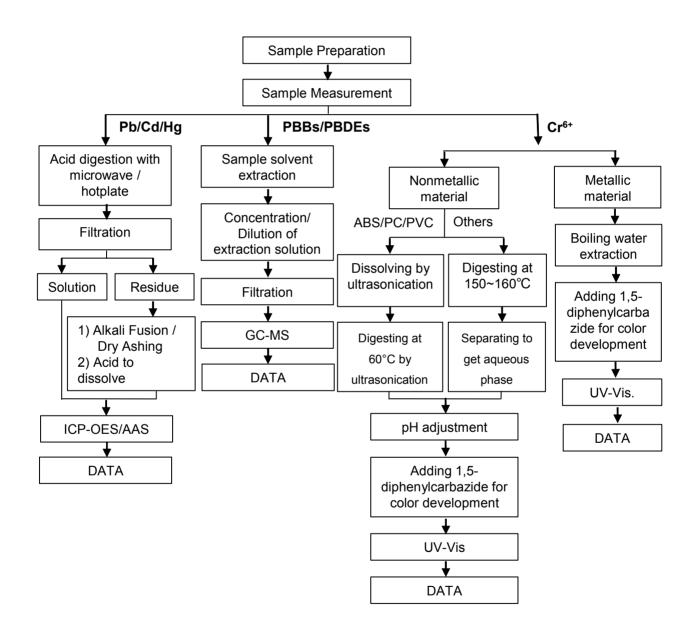
Page 4 of 7

Date: 21 Mar 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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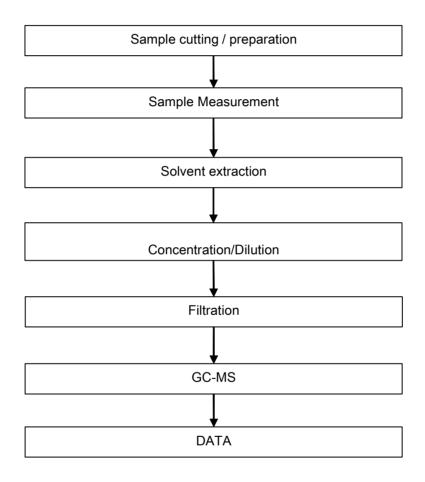
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Phthalates Testing Flow Chart





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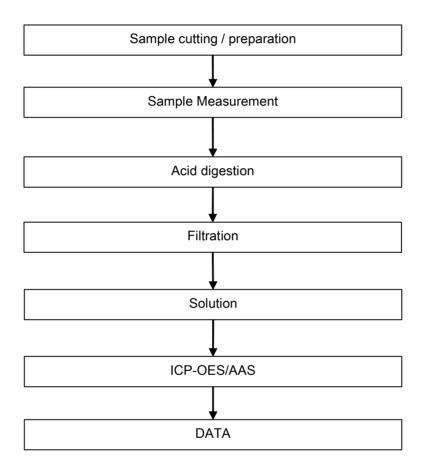
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Date: 21 Mar 2019

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Elementary Testing Flow Chart





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No. CANEC1904032401

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Date: 21 Mar 2019

Sample photo:



SGS authenticate the photo on original report only

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DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD
QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE, TINNED COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the

notification of WTO on Feb 7, 2019.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Nobet Shi



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of \geq 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or \geq 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.003	Copper colored metal wire(a)+silvery plated
		metal wire(b)

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC
- 10. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyItin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
Ι	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
Ι	15	Triethyl arsenate*	15606-95-8	0.005
П	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
П	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
П	25	Lead chromate*	7758-97-6	0.005
П	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
Ш	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	×	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Χ	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	n sulphate* 10124-36-4, 31119-53-6	
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166			0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	ammonium salts 830-45		3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050



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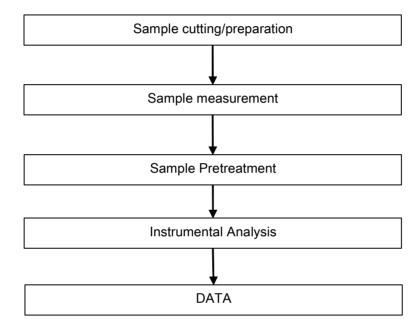
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SVHC Testing Flow Chart





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Test Report No. CANEC1904032402 Date: 21 Mar 2019 Page 1 of 12

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: TINNED COPPER

WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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No. CANEC1904032402

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN19-040324.002 Silvery plated metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

中国·广州·经济技术开发区科学城科珠路198号



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Test Report	No. CANEC19040324	032402 Date: 21 Mar 2019		21 Mar 2019	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ac		mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Ar	nthracene,			
Fluoranthene				ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category	3
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	category 1 wit foreseeable conskin for longer (long-term ski	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact. Materials not falling under category 1 or 2 with for contact to skin for less (short-term skin contact to skin for less (short-term skin contact to skin for less (short-term skin contact to skin short-term skin s		foreseeable ss than 30 s
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

PFOS (Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s) CAS NO. <u>Unit</u> MDL 002 Perfluorooctane Sulfonates (PFOS)^ ND mg/kg 10

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,



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N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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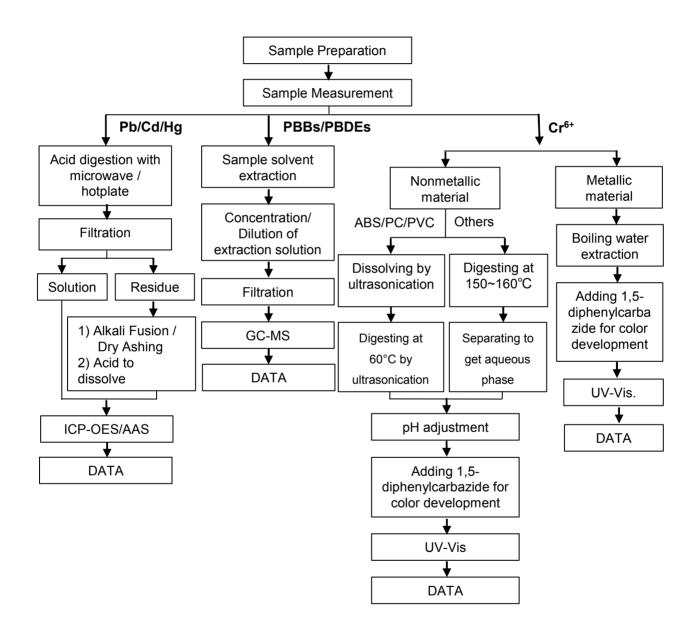
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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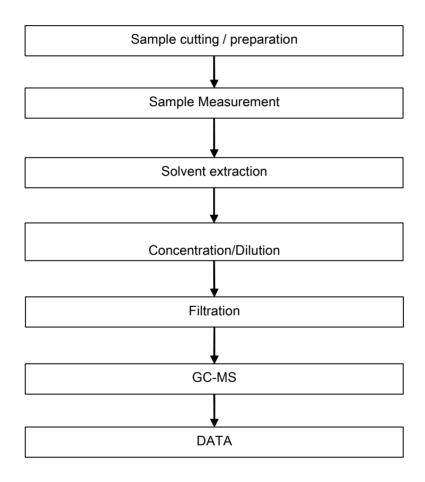
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Phthalates Testing Flow Chart





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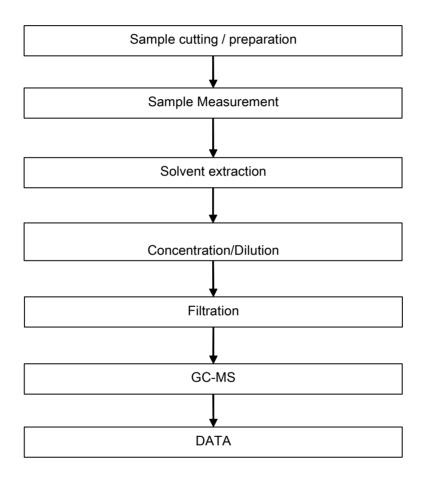
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PAHs Testing Flow Chart





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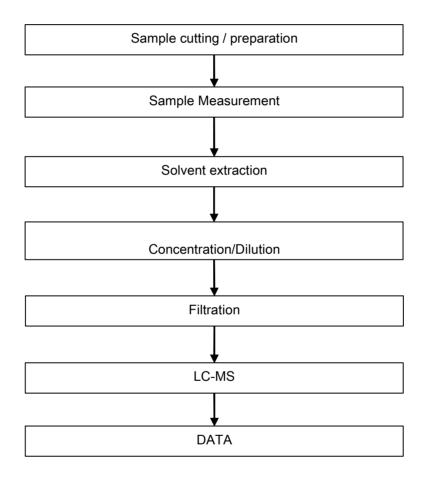
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PFOA / PFOS Testing Flow Chart





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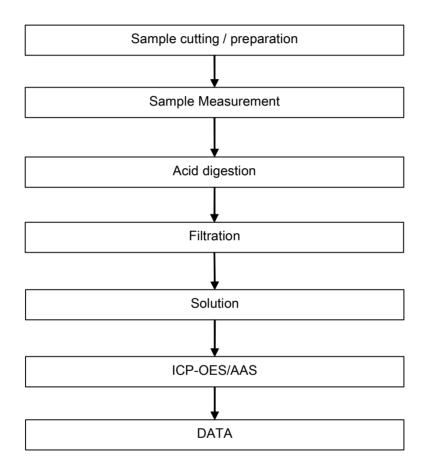
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Elementary Testing Flow Chart





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SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-02

Client Ref. Info. : I-PE-02;I-PP-02; I-PU-02; I-RU-02; I-TPR-02;I-PPE-02

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

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If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.001	Black liquid	6
SN2	CAN19-014883.004	Black liquid	181
SN3	CAN19-014883.007	Black liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
_	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	004
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	004
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	004
I	4	Anthracene	120-12-7	0.050	004
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	004
_	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	004
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	004
I	8	Cobalt dichloride*	7646-79-9	0.005	004
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	004
I	10	Diarsenic trioxide*	1327-53-3	0.005	004
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	004
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	004
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005	004
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	004
I	15	Triethyl arsenate*	15606-95-8	0.005	004
II	16	2,4-Dinitrotoluene	121-14-2	0.050	004
II	17	Acrylamide	79-06-1	0.050	004
II	18	Anthracene oil**	90640-80-5	0.050	004
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	004
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	004
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	004
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	004
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	004
II	25	Lead chromate*	7758-97-6	0.005	004
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	004
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	004
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	004
III	29	Ammonium dichromate*	7789-09-5	0.005	004
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	004
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	004
Ш	32	Potassium chromate*	7789-00-6	0.005	004
Ш	33	Potassium dichromate*	7778-50-9	0.005	004
III	34	Sodium chromate*	7775-11-3	0.005	004
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	004
III	36	Trichloroethylene	79-01-6	0.050	004
IV	37	2-Ethoxyethanol	110-80-5	0.050	004
IV	38	2-Methoxyethanol	109-86-4	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	004
IV	40	Chromium trioxide*	1333-82-0	0.005	004
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	004
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	004
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	004
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	004
V	45	1,2,3-trichloropropane	96-18-4	0.050	004
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	004
\	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	004
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	004
V	49	2-ethoxyethyl acetate	111-15-9	0.050	004
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	004
V	51	Strontium chromate*	7789-06-2	0.005	004
VI	52	1,2-Dichloroethane	107-06-2	0.050	004
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	004
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	004
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	004
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	004
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	004
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	004
VI	60	Calcium arsenate*	7778-44-1	0.005	004
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	004
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	004
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	004
VI	64	Lead dipicrate*	6477-64-1	0.005	004
VI	65	Lead styphnate*	15245-44-0	0.005	004
VI	66	N,N-dimethylacetamide	127-19-5	0.050	004
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	004
VI	68	Phenolphthalein	77-09-8	0.050	004
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	004
VI	70	Trilead diarsenate*	3687-31-8	0.005	004
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	004
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	004
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	004
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	004
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	004
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	004
VII	78	Diboron trioxide*	1303-86-2	0.005	004
VII	79	Formamide	75-12-7	0.050	004
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	004
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	004
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	004
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	004
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	004
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	004
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	004
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	004
VIII	88	1-Bromopropane	106-94-5	0.050	004
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	004
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	004



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	004
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	004
VIII	93	4-Aminoazobenzene	60-09-3	0.050	004
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	004
VIII	95	4-Nonylphenol, branched and linear	-	0.050	004
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	004
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	004
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	004
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	004
III	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	004
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	004
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	004
VIII	103	Diethyl sulphate	64-67-5	0.050	004
VIII	104	Diisopentylphthalate	605-50-5	0.050	004
VIII	105	Dimethyl sulphate	77-78-1	0.050	004
VIII	106	Dinoseb	88-85-7	0.050	004
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	004
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	004
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	004
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	004
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	004
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	004
VIII	114	Lead cyanamidate*	20837-86-9	0.005	004
VIII	115	Lead dinitrate*	10099-74-8	0.005	004
VIII	116	Lead monoxide*	1317-36-8	0.005	004
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	004
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	004
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	004
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	004
VIII	121	Methoxyacetic acid	625-45-6	0.050	004
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	004
VIII	123	N,N-dimethylformamide	68-12-2	0.050	004
VIII	124	N-Methylacetamide	79-16-3	0.050	004
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	004
VIII	126	o-Aminoazotoluene	97-56-3	0.050	004
VIII	127	o-Toluidine	95-53-4	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	004
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	004
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	004
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	004
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	004
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	004
VIII	134	Tetraethyllead*	78-00-2	0.005	004
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	004
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	004
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	004
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	004
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	004
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	004
IX	141	Cadmium oxide*	1306-19-0	0.005	004
IX	142	Cadmium*	7440-43-9	0.005	004
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	004
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	004
Х	145	Cadmium sulphide*	1306-23-6	0.005	004
Х	146	Dihexyl phthalate	84-75-3	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	004
X	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	004
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	004
X	150	Lead di(acetate)*	301-04-2	0.005	004
Х	151	Trixylyl phosphate	25155-23-1	0.050	004
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	004
ΧI	153	Cadmium chloride*	10108-64-2	0.005	004
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	004
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	004
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	004
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	004
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	004
XII	159	Cadmium fluoride*	7790-79-6	0.005	004
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	004
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	004
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	004
XIV	164	1,3-propanesultone	1120-71-4	0.050	004
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	004
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	004
XIV	167	Nitrobenzene	98-95-3	0.050	004
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	004
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	004
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	004
XVI	171	4-Heptylphenol, branched and linear	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	004
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	004
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	004
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	004
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	004
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	004
XVIII	178	Cadmium carbonate*	513-78-0	0.005	004
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	004
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	004
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	004
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	007
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	007
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	007
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	007
XIX	186	Disodium octaborate*	12008-41-2	0.005	007



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	007
XIX	188	Ethylenediamine	107-15-3	0.050	007
XIX	189	Lead*	7439-92-1	0.005	007
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	007
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	007
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	001
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	001
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	001
XX	195	Fluoranthene	206-44-0	0.050	001
XX	196	Phenanthrene	85-01-8	0.050	001
XX	197	Pyrene	129-00-0	0.050	001



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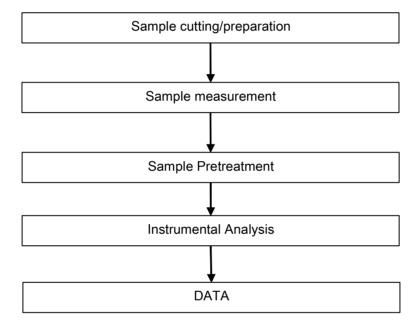
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SVHC Testing Flow Chart





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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-01 Date of Sample Received: 05 Jun 2019

Testing Period: 05 Jun 2019 - 12 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-106765.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676507		Date: 12 Jun 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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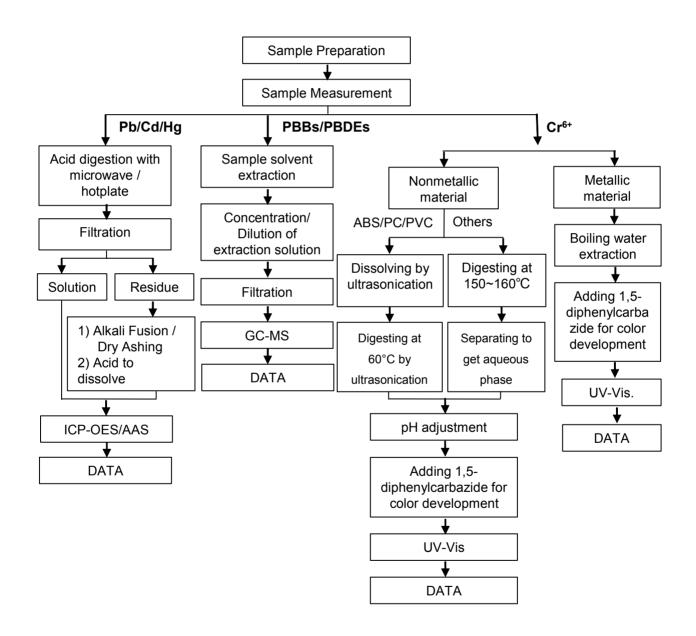
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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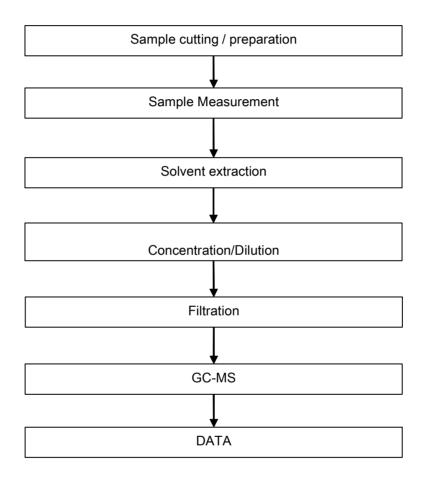
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Phthalates Testing Flow Chart





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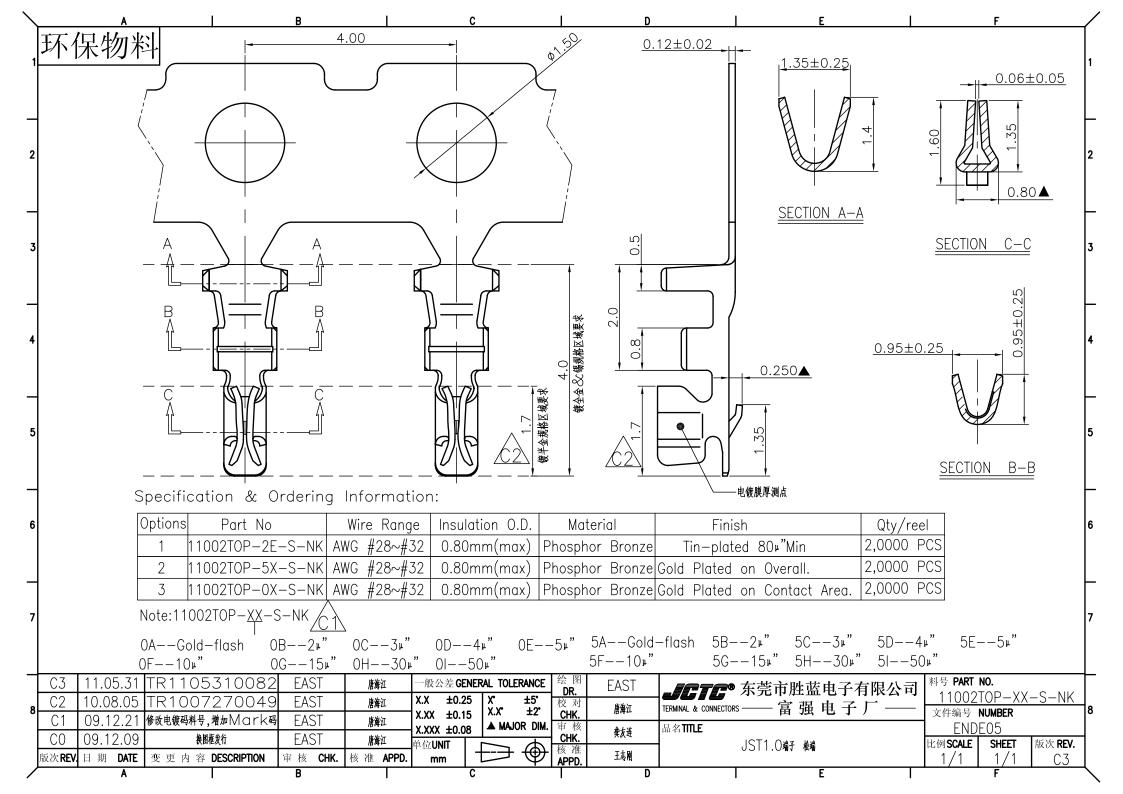
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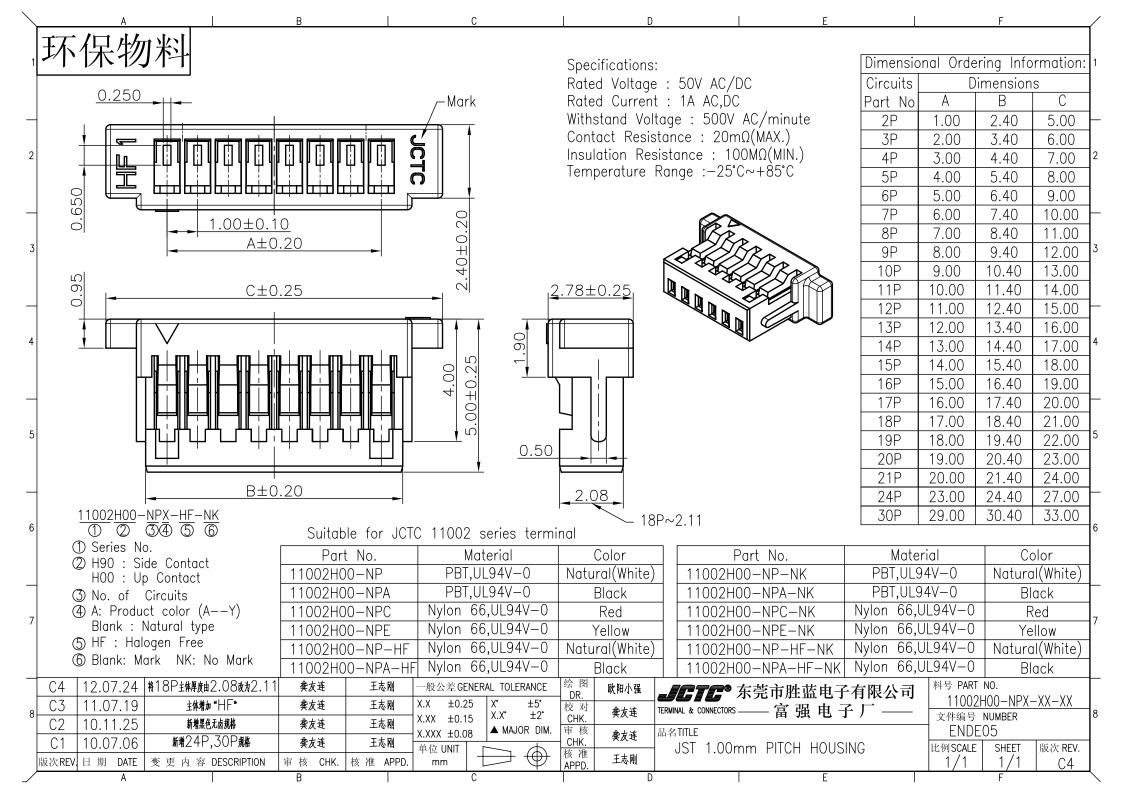


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ECBT2.E338796

Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

DONGGUAN CITY SHENGLAN ELECTRONICS CO LTD

F338796

Hexin Rd

Shatou District

Changan

Dongguan, Guangdong 523846 CHINA

Connectors, Model(s) Cat. No. 11002H00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 17, 18, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W90, follow by -2X, follow by 5, 6, 8, 9, 10, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11253H, followed by -20 or -30, followed by P.

Cat. No. 11253W, followed by -20 or -30, followed by P.

Cat. No. 11258H00, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow A thru Z or 1 thru 9.

Cat. No. 11258W90, follow by -S, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Cat. No. 12002H00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W90, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Cat. No. 12505W00, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12505W90, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P. $\,$

Cat. No. 12543H, followed by -2 thru -20, followed by P.

Cat. No. 12547H00, followed by -3 thru -8, followed by P.

Cat. No. 13502W90, followed by -2P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9.

Cat. No. 13962H00, 13962W00 and 13962W90, followed by -2P thru -10P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by - A thru -Z, or -0 thru -9.

Cat. No. 22001H, followed by -2 thru -16, followed by P.

Cat. No. 22501H, followed by -2 thru -14, followed by P.

Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.

Cat. Nos. 11001H and 11001W, followed by -30, followed by P.

Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.

Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.

Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.

Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.

Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.

Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.

Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.

Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.

Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.

Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.

Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.

Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.

Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.

Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.

Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.

Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.

Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.

Cat. Nos. 51274H-7P and 51275H-7P.

Marking: Company name and model designation on the device or carton.

Last Updated on 2014-04-25

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Test Report No. CANEC1917598907 Date: 17 Sep 2019 Page 1 of 19

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Nylon 66 UL 94V-0 Natural color housing

SGS Job No.: CP19-049304 - SZ

Tested Sample Info. : Nylon 66 UL 94V-0 Natural color housing

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 05 Sep 2019

05 Sep 2019 - 17 Sep 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalate	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)	See Results



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No. CANEC1917598907

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Date: 17 Sep 2019

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessieli

Jessie Li Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** CAN19-175989.003 SN₁ White material

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
100	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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-	mg/kg	5	ND
	100 1000 1000 1000 1000	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - mg/kg	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - - mg/kg 5 -



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Test Report	No. CANEC1917598907		Date: 1	7 Sep 2019	Page 4 of 19	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>		
Octabromodiphenyl ether	-	mg/kg	5	ND		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND		
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND		
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637.25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method Test Method:

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

Tetrabromobisphenol A (TBBP-A)

Test Method: SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996),

analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Red Phosphor



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Test Report Date: 17 Sep 2019 Page 5 of 19 No. CANEC1917598907

Test Method: SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS/

ICP-OES.

003 Test Item(s) Unit **MDL** Red phosphorus 500 ND mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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Test Report No. CANEC1917598907 Date: 17 Sep 2019 Page 6 of 19

AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category 3			
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	foreseeable contact to skin for longer than 30 s		indented to be put in the mouth or toys with intended skin contact (longer (long-term skin) or		Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	foreseeable ss than 30 s
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG		
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum		
Naphthalene, mg/kg	< 1	< 2		< 10			
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50		

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	003
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, γ-HBCDD)			



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Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	003
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.01	ND
alkyl esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.01	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.



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In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

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iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

Phthalate(s)

With reference to SGS in house method (SGS-CCL-TOP-042-41), analysis was performed by Test Method: LC-MS.

Test Item(s) CAS NO. **Unit MDL** 003 Phthalic acid, mono-2-ethylhexyl ester(MEHP) 4376-20-9 %(w/w) 0.003 ND

European Regulation POPs (EU) 2019/1021- Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	003
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)	-	mg/kg	50	ND
(MCCPs)				

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS)^		ma/ka	0.01	ND



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Notes:

(1) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid. Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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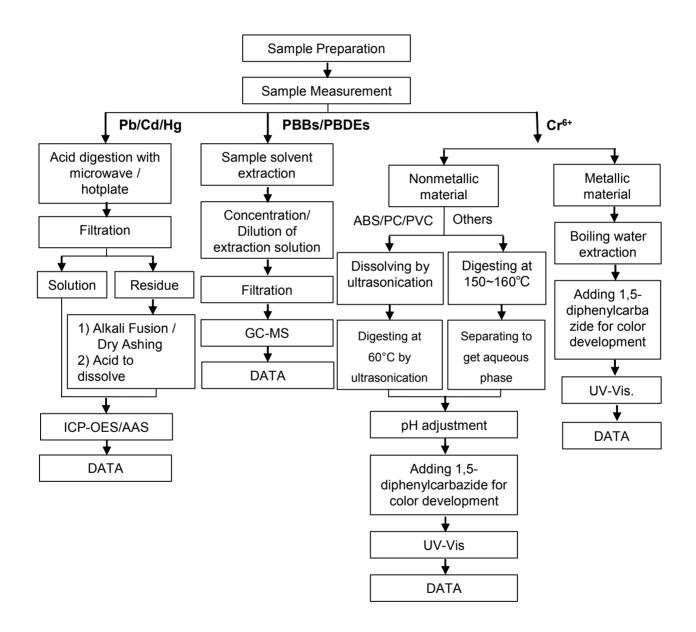
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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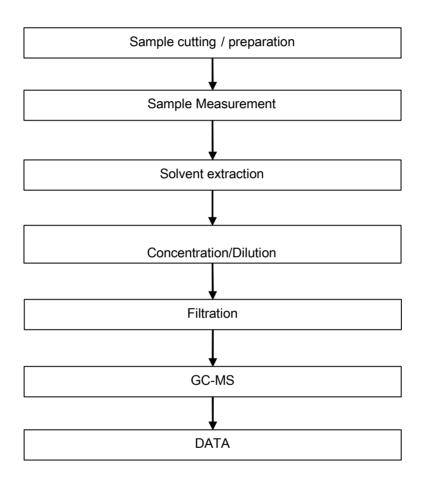
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Phthalates Testing Flow Chart





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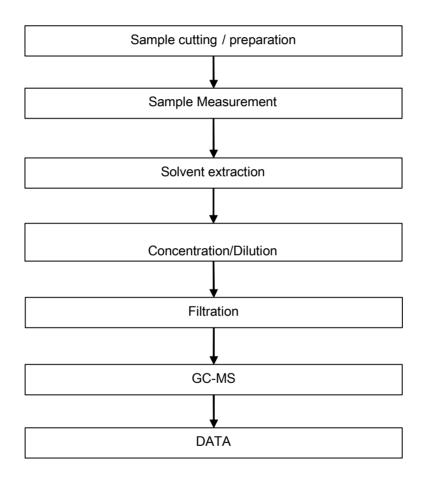
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HBCDD Testing Flow Chart





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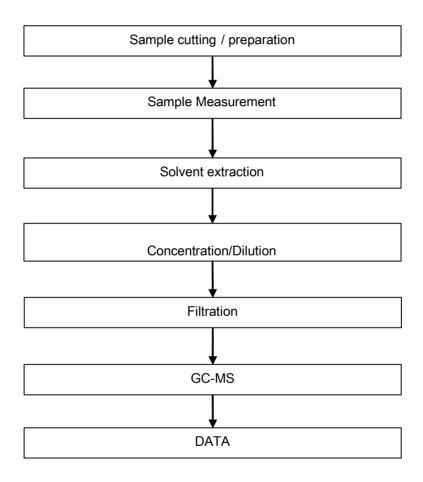
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PAHs Testing Flow Chart





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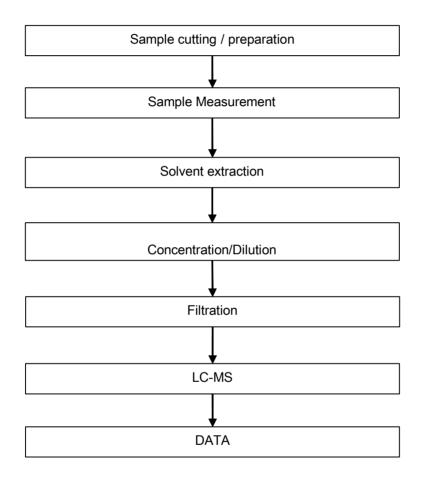
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PFOA / PFOS Testing Flow Chart





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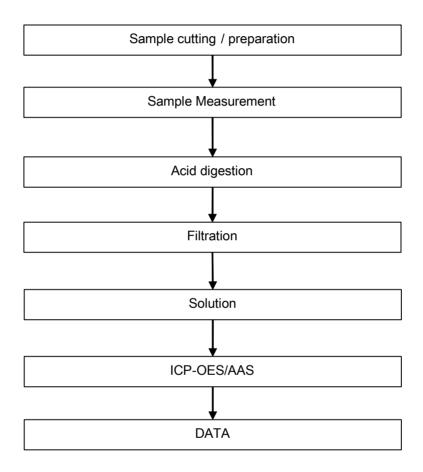
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Elementary Testing Flow Chart





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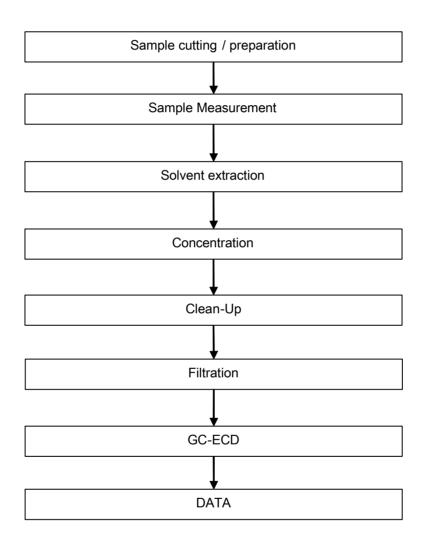
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SCCP/MCCP/LCCP Testing Flow Chart





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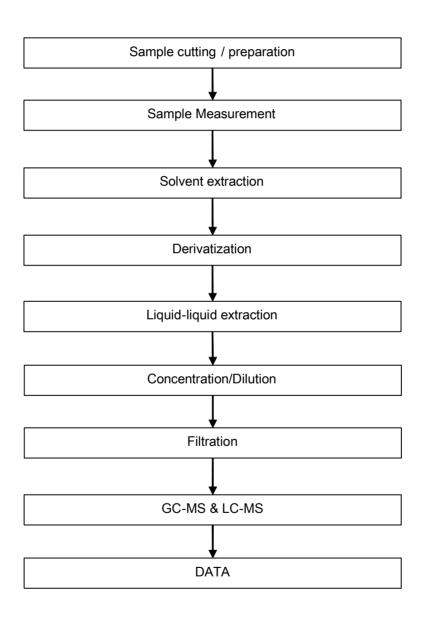


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TBBP-A Testing Flow Chart





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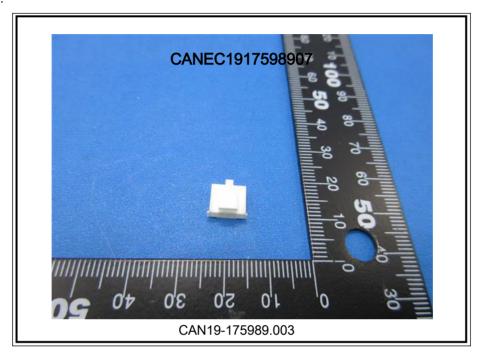


No. CANEC1917598907

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Date: 17 Sep 2019

Sample photo:



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Test Report No. CANEC1823638801 Date: 14 Nov 2018 Page 1 of 8

SHENGLAN TECHNOLOGY CO.,LTD

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

This report is to supersede test report CANEC1822941204

The following sample(s) was/were submitted and identified on behalf of the clients as: Phosphor copper nickel plated tin terminal pin

SGS Job No.: CP18-061410 - SZ

Model No.: 11255

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 06 Nov 2018

Testing Period: 06 Nov 2018 - 09 Nov 2018

Selected test(s) as requested by client. Test Requested:

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo Yeung

Approved Signatory

Echo Yeung



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Test Report No. CANEC1823638801 Date: 14 Nov 2018 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN18-236388.002 Silvery plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	12
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	_	µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series

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http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 $\mu g/cm^2$ and 0.13 $\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis



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Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method

3050B:1996), analysis was performed by ICP-OES.

 Test Item(s)
 Unit
 MDL
 002

 Beryllium (Be)
 mg/kg
 5
 ND

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	μg/m²	1.0	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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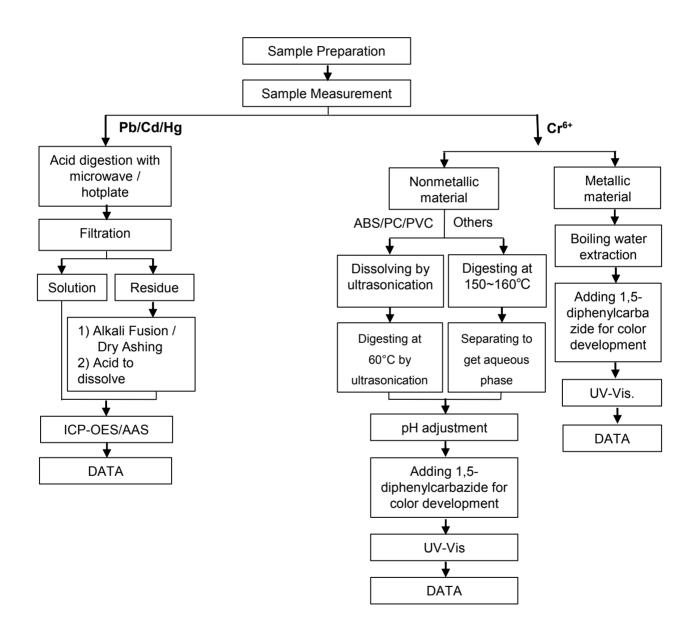
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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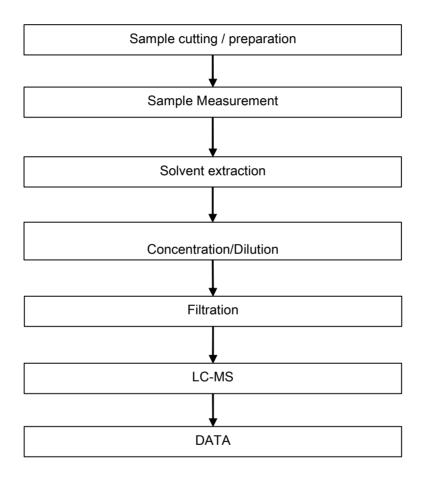
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PFOA / PFOS Testing Flow Chart





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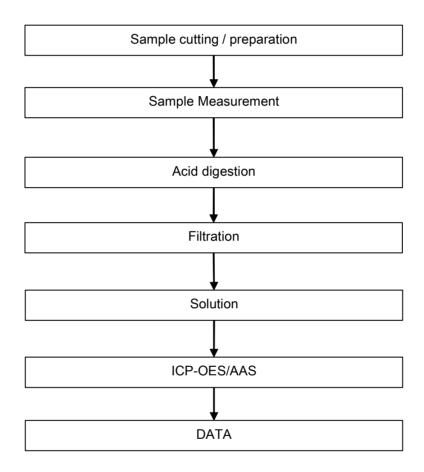
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Elementary Testing Flow Chart





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REMARK:

10001、	10500、	10800、	11001、	11002、	11003、	11004、	11005、	11006、	11007、	11008、
11201、	11202、	11203、	11250、	11251、	11252、	11253、	11254、	11255、	11256、	11257、
11258、	11259、	11270、	11500、	11501、	11502、	11503、	11508、	11800、	11801、	12001、
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61009、	61010、	61013、	61100、	61270、	62001、	62291、	62771、	62772、	63100、	64001、



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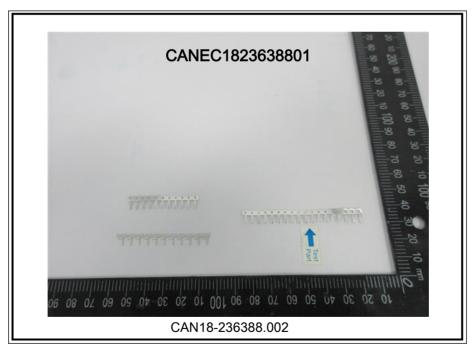
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产品规格承认书

版本: A/1

产品名称	H无卤环保热缩套管	供应商代码	
规格/型号	所有系列	客户编号	

供應商確認(弘源碩電子材料有限公司)

拟制/日期	审核/日期
范松林 / 2012年1月15日	宋大春 / 2012年1月15日

客戶確認

客户批准/日期	

公司地址:深圳市寶安區沙井街道辦中心路匯盈商務大廈十三樓1301,1302室

邮 编: 518104

电 话: 0755-29308589

传 真: 0755-29308085

网 址: www.lyc-hys.com

1 主题内容与适用范围

本承认书规定了无卤环保阻燃型热收缩套管的技术要求、试验方法、检验规则以及包装等内容。本承认书适用于电线连接、焊点保护、电线端部处理、线束及电子元器件的防护和绝缘处理、健身器材零部件和钢结构表面防护、相关产品的防锈和防腐处理、电线和其它产品的标识等用途的无卤阻燃型热收缩套管。

2 引用标准

Standard for Extruded Electrical Tubing UL 224.

3 术语

3. 1热收缩材料

以可塑性线型高聚物或高聚物合金为基材,用高能辐照方法或化学方法使聚合物分子链部分交 联成为网状结构获得弹性"记忆效应",经加热扩张至特定尺寸后冷却定型,使用时加热到适当温 度后自行收缩到扩张前的形状和尺寸,这种材料称为热收缩材料。

3. 2热收缩套管

将上述高聚物或高聚物合金通过挤出成型得到规定尺寸的管状中间产品,辐照(或化学)交联 后加热扩张,冷却定型得到的具有一定尺寸的管状产品成为热收缩套管。

3. 3 绿色 RSFR 无卤阻燃热收缩材料

在热收缩材料中添加一定量的不含卤素、重金属等对环境有害的阻燃剂,使之符合一定阻燃要求和环保要求,则成为绿色 RSFR 无卤阻燃热收缩材料。

4 技术要求

- 4. 1 使用条件
- 4. 1. 1 连续使用的环境温度: -55℃~125℃。
- 4. 1. 2 可在酸、碱条件下长期使用。
- 4.1.3 可在环保要求严格的条件下长期使用。
- 4. 2 表观要求
- 4. 2. 1 制品表面无明显划伤、凹凸不平、竹节状缺陷。
- 4. 2. 2 表面光洁、无油污、无积尘。
- 4. 2. 3 印字清晰、无重影、无多余墨迹、无印不全或打滑现象。
- 4. 3 热收缩性能
- 4. 3. 1 起始收缩温度 70 °C,超薄型完全收缩温度 110 °C,普通型完全收缩温度 125 °C。按照 UL224 标准,完全收缩到位温度为 200 °C,3 分钟。
- 4. 3. 2 纵向收缩率不超过±5%
- 4. 4 材料的性能特性

材料的理化性能符合表1规定。

4. 5 收缩套管的产品尺寸

无卤阻燃型薄壁热收缩套管的产品尺寸符合表 2 规定,无卤阻燃型热收缩套管的产品尺寸符合表 3 规定。

4. 6 颜色

标准颜色:黑色、红色、蓝色、黄色、绿色、白色,其它颜色如紫色、灰色、棕色等可根据客户要求 定做。

4.7 使用方法

在使用过程中,为了保证热缩套管能完全收缩到位,使用强制鼓风式恒温烘箱,并将收缩温度 控制在125℃。特别注意,当把热缩套管放入烘箱过程中,烘箱温度有一下降趋势,要达到设定温度 需要一定的时间;同时,在烘箱内通过热空气循环流动使热缩套管达到最终收缩温度同样需要一定

的时间。因此,必须在烘箱实际温度达到设定温度并保持该温度3分钟左右,热缩套管才能完全收缩到位。

表 1 无卤阻燃型热收缩套管的性能特性

H AL			MHAS IS NOT	Int. Ala Ha I —
	性能		测试方法	性能指标
物理性能	拉	伸强度/MPa	GB/T1040	≥10.4
	断	裂伸长率/%	GB/T1040	≥200
	热老化	后拉伸强度/MPa	UL224; 158℃×168hr	≥7.3
	热老化	后断裂伸长率/%	UL224; 158℃×168hr	≥100
		耐热冲击	UL224; 250°C×4hr	不发粘,不龟裂
		抗冷弯曲	UL224; -30℃×1hr	不龟裂
电气性能	耐压	300V	UL224	2500V 不击穿
		600V	UL224	2500V 不击穿
	击线	穿强度/KV/mm	GB/T1408	≥15
	体积	R电阻率/Ω•cm	GB/T1410	\geqslant 1×10 ¹⁴
化学性能		铜安定性	UL224; 158℃×168hr	PASS
	抗腐蚀性		UL224; 158℃×168hr	PASS
		阻燃性	UL224	VW-1

表 2 H-CB 管 (无卤阻燃型薄壁热收缩套管)的产品尺寸

规格	收缩前尺	寸 (mm)	收缩后月	尺寸 (mm)	旧包装	新包裝	适用范围
(mm)	内径	壁厚	内径	壁厚	米/盘	米/盘	(mm)
Ф 0. 6СВ	0.90 ± 0.2	0.13 ± 0.05	≤ 0. 40	0.20 ± 0.10	200	400	0.4~0.7
Ф 0. 8СВ	1.10 ± 0.2	0.13 ± 0.05	≤ 0.50	0.20 ± 0.10	200	400	0.6~0.8
Ф1.0СВ	1.40 ± 0.2	0.13 ± 0.05	≤ 0.65	0.20 ± 0.10	200	400	0.7~1.0
Ф1.5СВ	1.90 ± 0.2	0.13 ± 0.05	≤ 0.85	0.20 ± 0.10	200	400	$0.9 \sim 1.4$
Ф2.0СВ	2.40 ± 0.2	0.13 ± 0.05	≤1.00	0.22 ± 0.10	200	400	$1.1 \sim 1.8$
Ф2.5СВ	2.90 ± 0.2	0.13 ± 0.05	≤1.30	0.25 ± 0.10	200	400	1.4~2.3
Ф3.0СВ	3.40 ± 0.2	0.13 ± 0.05	≤ 1.50	0.28 ± 0.10	200	400	$1.6 \sim 2.7$
Ф 3. 5СВ	3.90 ± 0.2	0.13 ± 0.05	≤1.80	0.28 ± 0.10	200	400	$1.9 \sim 3.2$
Ф 4. ОСВ	4.40 ± 0.2	0.15 ± 0.05	≤ 2.00	0.30 ± 0.10	200	400	$2.1 \sim 3.6$
Ф4.5СВ	4.90 ± 0.2	0.15 ± 0.05	≤ 2. 30	0.30 ± 0.10	100	200	2.4~4.0
Ф 5. ОСВ	5.50 ± 0.2	0.15 ± 0.05	≤ 2.5	0.32 ± 0.10	100	200	$2.6 \sim 4.5$
Ф 6. ОСВ	6.50 ± 0.2	0.15 ± 0.05	≤ 3.0	0.32 ± 0.10	100	200	3.1~5.4
Ф 7СВ	7.50 \pm 0.3	0.15 ± 0.05	≤ 3.5	0.32 ± 0.10	200	200	3.7~6.3
Ф8СВ	8.50 ± 0.3	0.15 ± 0.05	≤ 4. 0	0.32 ± 0.10	200	200	4.2~7.2
Ф 9СВ	9.50 ± 0.3	0.15 ± 0.05	≤ 4. 5	0.35 ± 0.10	200	200	4.7~8.0
Ф 10СВ	10.5 \pm 0.3	0.15 ± 0.05	≤ 5. 0	0.35 ± 0.10	200	200	5.2~9.0

Ф11СВ	11.5±0.3	0.18 ± 0.05	≤ 5. 5	0.40 ± 0.10	200	200	5.7~10.0
Ф 12СВ	12.5 ± 0.3	0.20 ± 0.05	≤6. 0	0.40 ± 0.10	200	200	6.2~11.0
Ф13СВ	13.5 ± 0.3	0.20 ± 0.05	≤ 6. 5	0.40 ± 0.10	200	200	6.7~12.0
Ф 14СВ	14.5 ± 0.3	0.20 ± 0.05	≤ 7. 0	0.40 ± 0.10	200	200	7.3~13.0
Ф 15СВ	15.5 \pm 0.4	0.20 ± 0.05	≤ 7. 5	0.40 ± 0.10	200	200	7.8~14.0
Ф 16СВ	16.5 ± 0.4	0.22 ± 0.05	≪8.0	0.40 ± 0.10	200	200	8.3~15.8
Ф17СВ	17.5 ± 0.4	0.22 ± 0.05	≪8.5	0.40 ± 0.10	200	200	8.8~16.0
Ф 18СВ	18.5 ± 0.4	0.22 ± 0.05	≤ 9. 0	0.42 ± 0.10	200	200	9.3~17.0
Ф 20СВ	20.5 ± 0.5	0.25 ± 0.05	≤ 10.0	0.45 ± 0.10	200	200	10.5~19.0
Ф 22СВ	22.5 ± 0.5	0.25 ± 0.05	≤11.0	0.45 ± 0.10	200	200	$11.5\sim20.5$
Ф 25СВ	25.5 ± 0.5	0.25 ± 0.05	≤ 12. 5	0.45 ± 0.10	100	100	13.0~24.0

E203950 **(Σ)** WOER RSFR(CB) TUBE 125°C VW-1 H (Φ 9CB)

表3 H管(无卤阻燃型热收缩套管)的产品尺寸要求

规格	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
(mm)	 内径	壁厚	最大内径	壁厚	米/盘	米/盘	
Ф0.6	0.9 ± 0.2	至序 0.18±0.05	取入内在 ≤0.40	<u> </u>	200	400	$\frac{\text{(mm)}}{0.4 \sim 0.7}$
Ф0.8	1.1 ± 0.2	0.18 ± 0.05	≤0.50	0.33 ± 0.10	200	400	0.6~0.8
Ф1.0	1.5 ± 0.2	0.20 ± 0.05	≤0.65	0.36 ± 0.10	200	400	0.75~0.9
Ф1.5	2.0 ± 0.2	0.20 ± 0.05	≤0.85	0.36 ± 0.10	200	400	0.95~1.4
Ф2.0	2.5 ± 0.2	0.20 ± 0.05	≤1.00	0.45 ± 0.10	200	400	1.1~1.8
Ф2.5	3.0 ± 0.2	0.20 ± 0.05	≤1.30	0.45 ± 0.10	200	400	1.35~2.3
Ф3.0	3.5 ± 0.2	0.23 ± 0.05	≤1.50	0.45 ± 0.10	200	400	1.6~2.7
Ф3.5	4.0 ± 0.2	0.23 ± 0.05	≤1.80	0.45 ± 0.10	200	400	1.85~3.2
Ф4.0	4.5 ± 0.2	0.25 ± 0.05	€2.00	0.45 ± 0.10	200	400	2.1~3.6
Ф4.5	5.0 ± 0.2	0.28 ± 0.05	€2.30	0.56 ± 0.10	100	200	2.35~4.0
Ф5.0	5.5 ± 0.2	0.28 ± 0.05	≤2.50	0.56 ± 0.10	100	200	2.6~4.5
Ф6.0	6.5 \pm 0.2	0.28 ± 0.05	≤3.00	0.56 ± 0.10	100	200	3.1~5.4
Ф7.0	7.5 ± 0.3	0.30 ± 0.05	≤3.50	0.56 ± 0.10	100	100	3.7~6.3
Ф8.0	8.5 ± 0.3	0.30 ± 0.08	≤ 4.00	0.56 ± 0.10	100	100	4.2~7.2
Ф9.0	9.5 ± 0.3	0.30 ± 0.08	≤ 4. 50	0.56 ± 0.10	100	100	4.7~8.0
Ф10	10.5 \pm 0.3	0.30 ± 0.08	≤ 5. 00	0.56 ± 0.10	100	100	5. 2~9. 0
Ф11	11.5 \pm 0.3	0.30 ± 0.08	≤ 5. 50	0.56 ± 0.10	100	100	5.7~10
Ф12	12.5 \pm 0.3	0.30 ± 0.08	≤ 6.00	0.56 ± 0.10	100	100	6.2~11
Ф13	13.5 ± 0.3	0.35 ± 0.08	≤ 6. 50	0.56 ± 0.10	100	100	6.7~12
Ф14	14.5 ± 0.3	0.35 ± 0.10	€7.00	0.70 ± 0.10	100	100	7.3~13
Ф15	15. 5 ± 0.4	0.35 ± 0.10	≤ 7. 50	0.70 ± 0.10	100	100	7.8~14

规格 (mm)	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
Ф16	16.5 \pm 0.4	0.35 ± 0.10	≤8.00	0.70 ± 0.10	100	100	8.3~15
Ф17	17.5 ± 0.4	0.35 ± 0.10	≤8.50	0.70 ± 0.10	100	100	8.8~16
Ф18	19.0 ± 0.5	0.35 ± 0.10	≤9.00	0.70 ± 0.10	100	100	9.3~17
Ф20	22.0 ± 0.5	0.40 ± 0.10	≤10.00	0.83 ± 0.10	100	100	10.4~19
Ф22	24.0 ± 0.5	0.40 ± 0.12	≤11.00	0.83 ± 0.15	100	100	11.4~21
Ф25	26.0 ± 0.5	0.45 ± 0.12	≤12.50	0.90 ± 0.15	50	50	12.8~24
Ф28	29.0 ± 0.5	0.45 ± 0.12	≤14.00	0.90 ± 0.15	50	50	14.4~29
Ф30	31.5 ± 1.0	0.45 ± 0.12	≤15.00	1.00 ± 0.15	50	50	16~29
Ф35	36.5 ± 1.0	0.45 ± 0.12	≤ 17. 50	1.00 ± 0.15	50	50	18~34
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤ 20. 00	1.00 ± 0.15	50	50	21~39
Ф 45	46.5 ± 1.0	0.50 ± 0.15	≤22. 50	1.00 ± 0.20	25	25	23.5~44
Ф 50	≥50	0.50 ± 0.15	≤ 25. 00	1.10 ± 0.20	25	25	26~49

E203950 WOER RSFR-H TUBE 125°C VW-1 H (φ9)

注: Φ30 及以上规格产品默认为 G 管(环保性能符合欧盟 RoHS 2002/95/EC 标准)。如果客户需 H 无卤热缩套管,须在订单上注明。

4.8 环境物质

本承认书承诺不使用以下物质,四大重金属、多溴联苯(PBB)、多溴联苯醚(PBDE)、卤素等通过 SGS 检测。无卤阻燃型热收缩套管的环保特性列于表 4。

- 1. 多氯化联苯(PCB)类
- 2. 多氯化萘 (PCN) 类
- 3. 氯化石蜡
- 4. 灭蚁灵 (Mirex)
- 5. 其它有机氯化合物
- 6. 有机溴化合物-多溴联苯 (PBB)
- 7. 有机溴化合物-多溴联苯醚 (PBDE)
- 8. 有机锡化合物(三丁基锡化合物和三苯基锡化合物)
- 9. 石棉
- 10. 偶氮化合物
- 11. 甲醛

表 4 无卤阻燃型热收缩套管的环保特性

环境物质	含量	测试方法
氟 (F)	≤200PPM	EN 14582 Method B
氯 (C1)	≤900ppm	EN 14582 Method B
溴 (Br)	≤900ppm	EN 14582 Method B
碘 (I)	≤200PPM	EN 14582 Method B

镉 (Cd)	≤5ppm	IEC 62321
铅 (Pb)	≤90ppm	IEC 62321
铬 (Cr ⁶⁺)	≤5ppm	IEC 62321
汞 (Hg)	≤5ppm	IEC 62321
砷 (As)	≤50ppm	EPA 3052
钡 (Ba)	≤1000ppm	EPA 3052
锑(Sb)	≤60ppm	EPA 3052
硒 (Se)	≤25ppm	EPA 3052

备注: 氯(C1) + 溴(Br) <1500ppm

5. 材质证明书

材质证明书

沃尔核材股份有限公司无卤环保型 RSFR-H 热缩套管是一种阻燃型的热收缩套管,组成材料为聚烯烃加适量阻燃剂和助剂。产品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr⁶⁺)、多溴联苯(PBB)、多溴联苯醚(PBDE)等环境物质含量符合日本 SONY-SS-00259 和欧盟 RoHS 2002/95/EC 指令环保要求。其主要成份如下:

	原料名称			含量	供应商	CAS. NO.
中文	英文	分子式				
聚烯烃	Polyolefin	(CH ₂ CH ₂) n	主剂	50%	北京有机	9002-88-4
氢氧化镁	Magnesium	$Mg(OH)_2$	阻燃剂	35%	锦昊辉	1309-42-8
	Hydroxide					
磷系阻燃剂	Phosphorus	(NH_4PO_3) n	阻燃剂	10%	上海海以	7723-14-0
色母粒	Pigment	色母+填充剂	着色剂	5%	华万彩	
油墨	Printing Ink		印字		上海捷信	

6. 技术资料

- (1) UL/cUL 证书
- (2) ISO9001 证书
- (3) IS014001 证书
- (4) ISO/TS16949 证书
- (5) SGS/ITS/CTI 检测报告

弘源碩電子材料有限公司

二零一二年一月十五日



ONLINE CERTIFICATIONS DIRECTORY

YDPU2.E203950 Tubing, Extruded Insulating - Component

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Tubing, Extruded Insulating - Component

See General Information for Tubing, Extruded Insulating - Component

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD

E203950

XINWEI INDUSTRIAL PARK, WOER MANSION NANSHAN DISTRICT, XILI SHENZHEN, GUANGDONG 518052 CHINA

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance C	VW-1 Rated #
Flexible Heat-Sh	Flexible Heat-Shrinkable Polyolefin Tubing				
RSFR	600	125	All except Clear	None	\$
WKZM-x-yz	600	125	White	None	No
RSFR-H	600	125	All except Clear	None	Yes
RSFR(CB)	300	125	All except Clear	None	Yes
Not Heat-Shrinka	ble PTFE	Tubing	-		
WF	600	200	Natural	None	Yes
Heat-Shrinkable Polyolefin Tubing with Meltable Liner					
SBRS	600	125	All except Clear	None	Yes
Not Heat-Shrinkable Standard Wall Silicone Tubing					
WST-600	600	150	White	None	@

- x-yz x represents tubing expanded ID, yz represents any alpha and/or numeric combination for internal client code.
- # Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.
- @ VW-1 rated for internal diameter sizes 6.50 15.00 mm only.
- \$ VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container.

Last Updated on 2008-04-30

Questions?

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No. CANEC1822723201

Date: 09 Nov 2018

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SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD. WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG

DISTRICT, SHENZHEN

CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PLEASE SEE REMARK

CP18-059386 - SZ SGS Job No.:

Date of Sample Received: 02 Nov 2018

Testing Period: 02 Nov 2018 - 08 Nov 2018

Test Requested: As requested by client, SVHC screening is performed according to:

> (i) One hundred and ninety one (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

on Sep 4, 2018 regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description**

CAN18-227232.001 SN₁ Black tube w/whtie printing

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sqs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Managementof-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. \$\times CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9./ = Substances in the Consultation List of SVHC.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
1	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
٧	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
1	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
1	193	Benzo[k]fluoranthene	207-08-9	0.050
1	194	Fluoranthene	206-44-0	0.050
1	195	Phenanthrene	85-01-8	0.050
1	196	Pyrene	129-00-0	0.050
/	197	Undecafluorohexanoic acid and its ammonium salt	307-24-4, 21615-47-4	0.050



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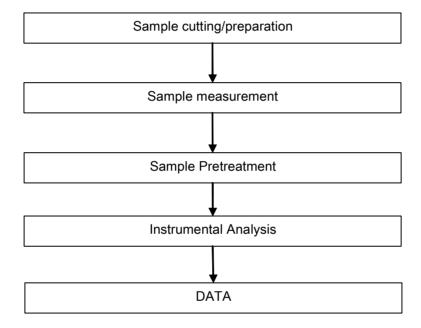
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SVHC Testing Flow Chart





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No. CANEC1822723201

Page 18 of 19

Date: 09 Nov 2018

REMARK:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 , W WOER RSFR-H TUBE 125°C VW-1 H)



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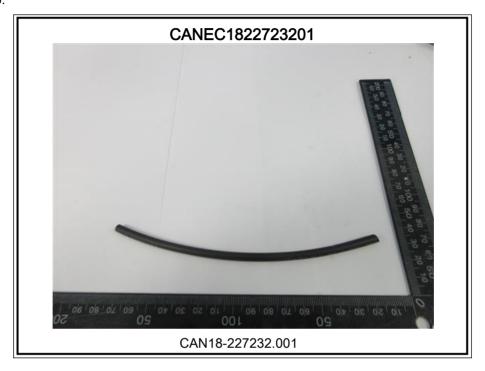
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No. CANEC1822723201

Date: 09 Nov 2018 Page 19 of 19

Sample photo:



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Page 1 of 7

Report No. A2190096126101003R1

Applicant SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Address WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREER, PINGSHAN

DISTRICT, SHENZHEN, GUANGDONG.

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PE masterbatch- Black

Sample Received Date Apr. 26, 2019

Testing Period Apr. 26, 2019 to Apr. 29, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

> Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Crit Qin

Hill Zheng

Pori Xia

Date

Reviewed by

May 17, 2019

No. R179757340

Technical Manager

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190096126101003R1

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Report No. A2190096126101003R1 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	36 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190096126101003R1

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Sample/Part Description

Black plastic grains

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note: This testing report revised "Sample Name" based on the original report of

No. A2190096126101003. This testing report displaces the original one

which was invalid since the date of this testing report released.

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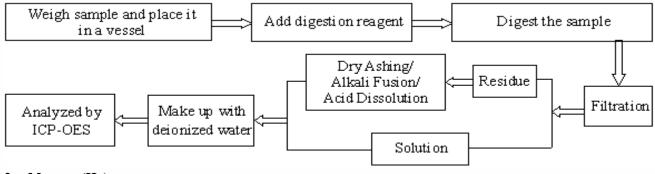


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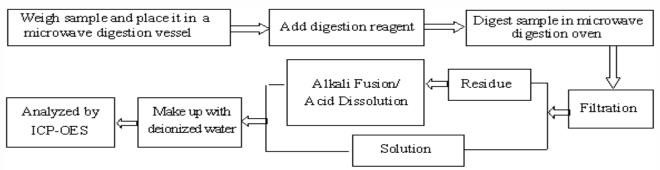
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



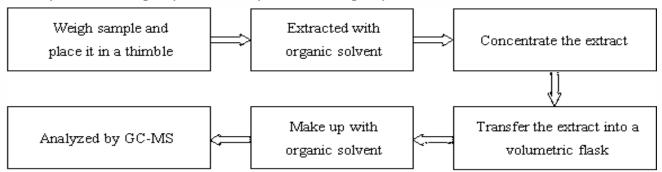
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



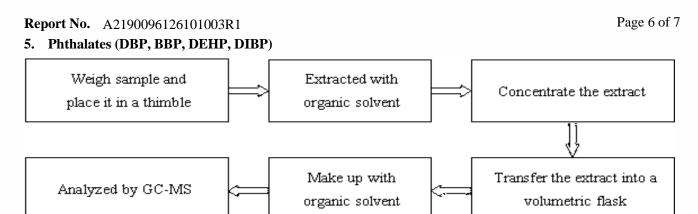
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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Report No. A2190096126101003R1

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Test Report No. CANEC1911780603 Date: 26 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: HALOGEN FREE

WHITE INK

SGS Job No.: CP19-032627 - SZ

Model No.: I-TPE-01

Client Ref. Info.: I-PE-01; I-TPE-01;I-TPR-01;I-PE-01; I-PPE-01;I-PP-01;I-TPU-01;I-RU-01

Date of Sample Received: 19 Jun 2019

Testing Period: 19 Jun 2019 - 26 Jun 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 26 Jun 2019 No. CANEC1911780603 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-117806.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19117806	803	Date: 2	26 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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Remark: The result(s) shown is/are of the total weight of dried sample.



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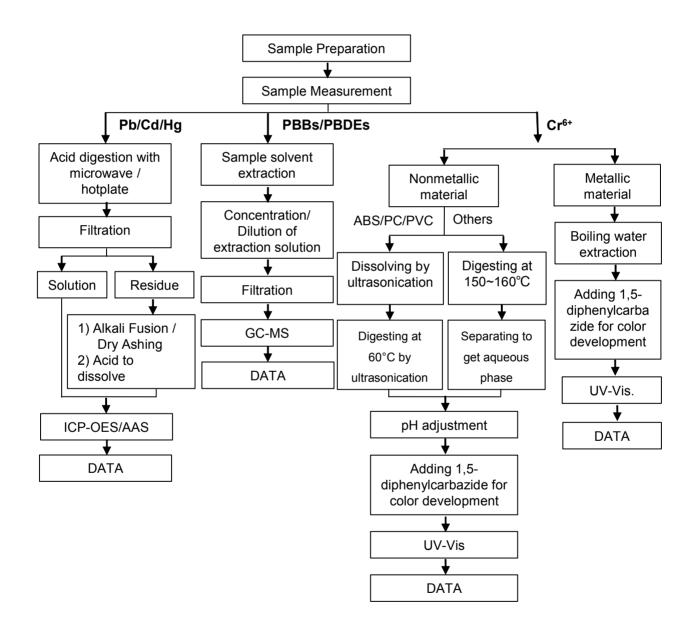
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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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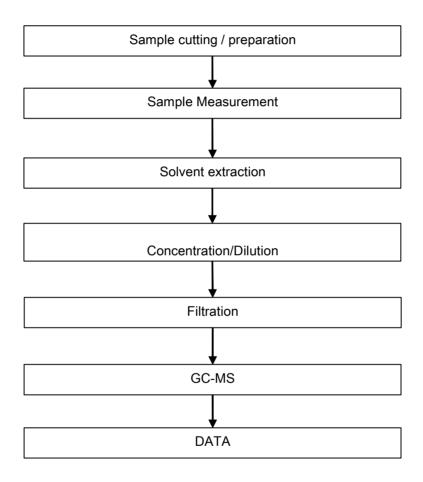
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Phthalates Testing Flow Chart





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Date: 26 Jun 2019

Sample photo:



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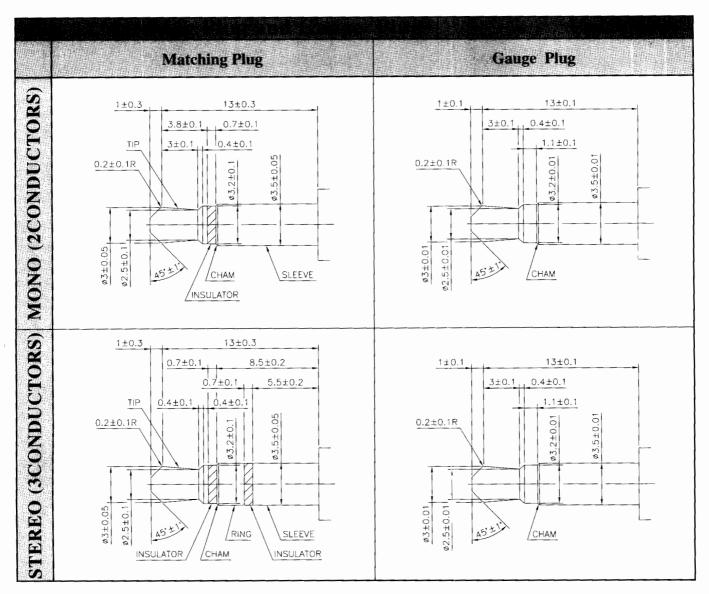


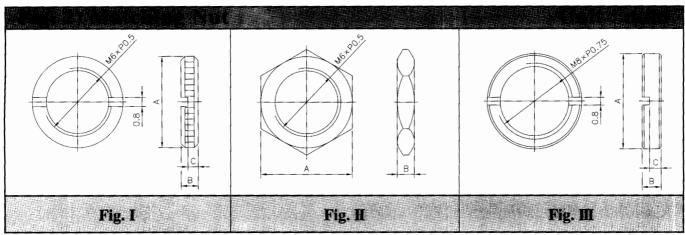
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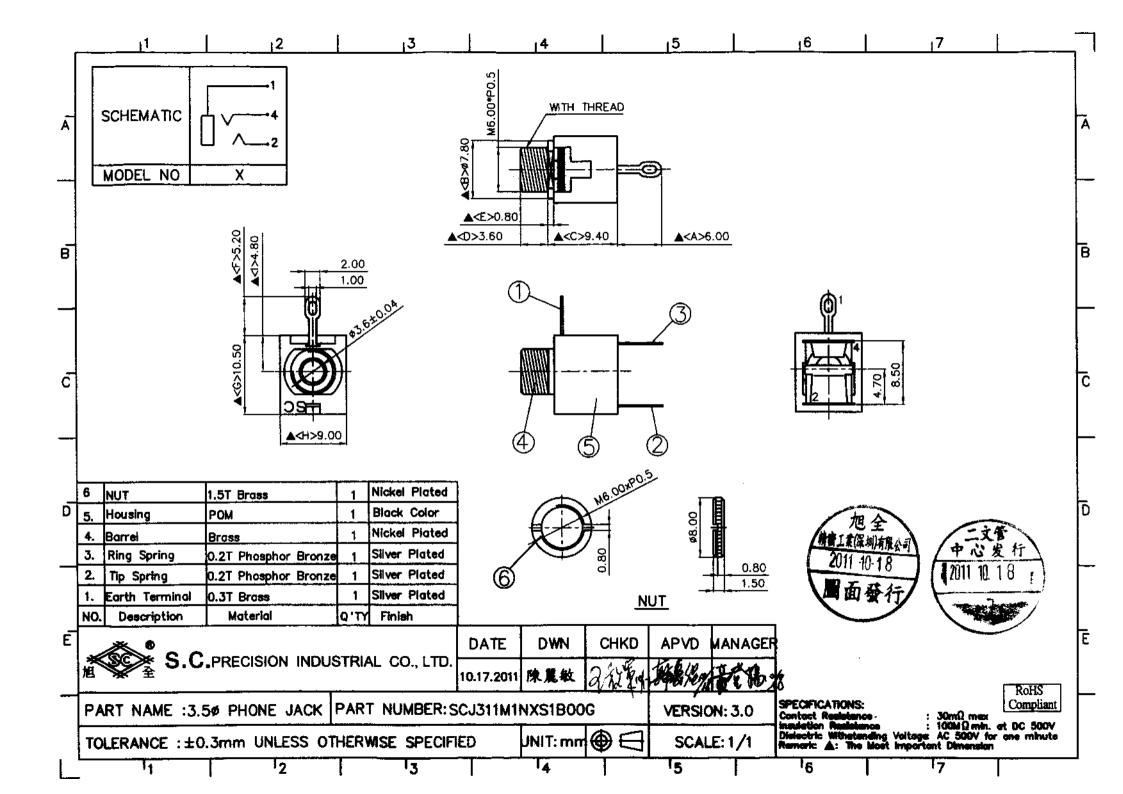
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Order	Ps.	Shape		Description		Dimension				
Code No.			Thread	Material	Finish	Dia. A	Dim. B	Dim. C		
1	Fig. I	Round	$M6 \times P0.5$	Brass	Nickel	Ø8.0	1.5	0.9		
2	Fig. II Hexagonal		$M6 \times P0.5$	Brass	Nickel	8.0	1.5	-		
3	Fig. III	Round	$M8 \times P0.5$	Brass	Nickel	Ø10.0	2.0	1.2		



DURACON POM 朔亚云 M90-44 宝理塑料(中国)有限公司 >POM Copolymer< 制造商 材料标示 颜色 UL档案号 本色 E45034 材料形状 颗粒状 加工方式 注射成型 ISO 1183 ISO 62 1.41 比重 吸水率 g/cm³ (23°C, 24 hr) 洛氏硬度 ISO 2039-2 80 M(Scale) 拉伸强度 断裂伸长半 弯曲强度 23°C 23°C 23°C ISO 527-2 ISO 527-2 62 35 MPa ISO 178 MPa 弯曲模量 23°C ISO 178 2500 MPa 简支梁缺口冲击强度 23°C ISO 179/1eA kJ/m² 热变形温度 1.80MPa 未退火 ISO 75-2/Af 95 °C 线膨胀系数 线膨胀系数 ISO 11359-2 ISO 11359-2 1.2E-4 1.2E-4 cm/cm/°C cm/cm/°C MD TD 体积电阻表面电阻 IEC 60093 IEC 60093 $\Omega.cm$ $\Omega.cm$ 绝缘强度 TEC 60243-1 29 KV/mm IEC 60243-1 19 绝缘强度 KV/mm 防火等级 All UL-94 0.75mm HB 防火等级防火等级 UL-94 UL-94 All 1.50mm HB 3.00mm HB 干燥温度 干燥时间 60-80 2.0-6.0 °C Hr 建议水份含量 <=0.20 % CCCCC 料筒后部温度 170-190 料筒中部温度料筒前部温度 180-200 190-210 喷嘴温度 200-220

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No. CANEC1900947201

Page 1 of 6

Date: 23 Jan 2019

DONGGUAN CITY TIANCHOU PLASTIC TECHNOLOGY CO.,LTD. NO.63, YINLING ROAD, TIAN TOU JIAO, QIAOTOU TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: POM

CP19-001892- GZ SGS Job No.:

M90-44 Model No.:

Manufacturer: POLYPLASTICS (JAPAN)CO LTD

Date of Sample Received: 17 Jan 2019

Testing Period: 17 Jan 2019 - 23 Jan 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory

Vorgyu Xie



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Date: 23 Jan 2019 No. CANEC1900947201

Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN19-009472.001 White plastic grains

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC Test Method: 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Lead (Pb)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19009472	201	Date: 2	3 Jan 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1258637,25
- (2)On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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No. CANEC1900947201

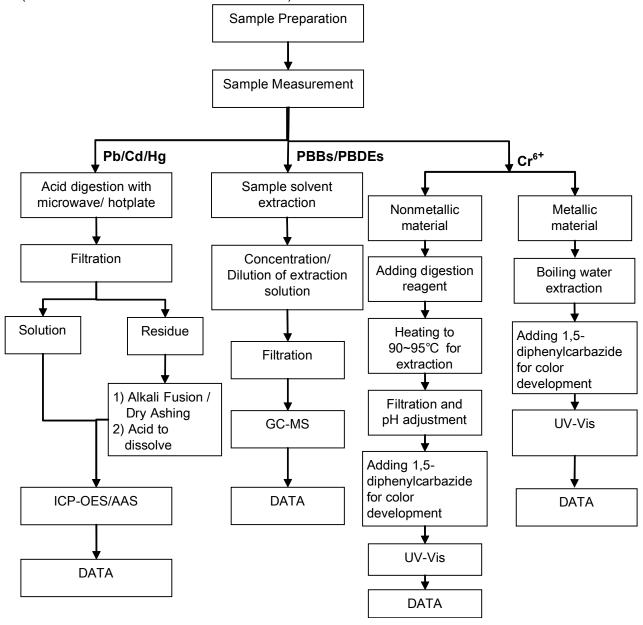
Page 4 of 6

Date: 23 Jan 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).





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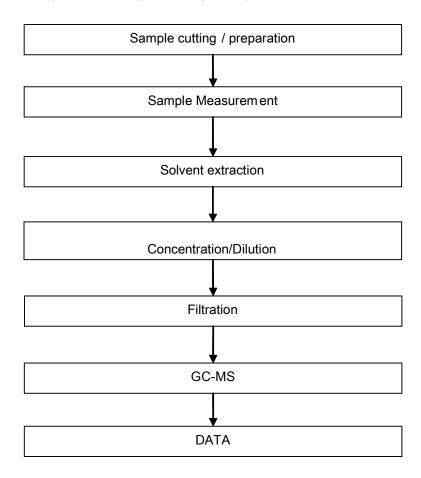
Page 5 of 6

Date: 23 Jan 2019

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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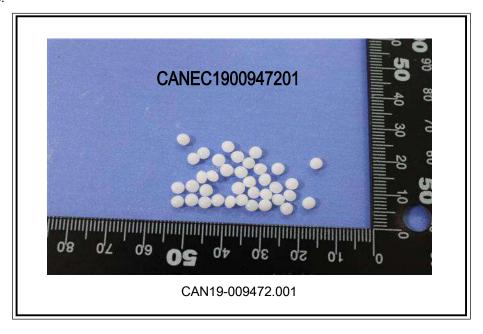


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Date: 23 Jan 2019

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Sample photo:



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南海毅兴铜业有限公司化学成份测试报告及物理性能测试报告



客户名称		订单号(PO.NO)		出货日期	2019年2月25日						
国际标准	JIS H32502006	试材品名	C3604	试材规格	ф 10						
化学试验	CHEMICAL TESTING										
仪器名称	瑞士ARLMA Cu直读	光谱仪									

元素名称	铜(Cu)	锌(Zn)	铅(Pb)	铁(Fe)	锡(Sn)	铝(Al)	锰(Mn)	硅(Si)	锑(Sb)	镉(Cd)	铋(Bi)	磷(P)	镍(Ni)
试片含量	58.24	37.7984	3.1727	0.3014	0.3074	0.0944	0.0053	0.0054	0.0083	0.0039	0.0069	0.0026	0.0537

机械试验	MECHANICAL T	ESTING	•		• 179						
仪器名称	WD-50B电子式万	WD-50B电子式万能试验机									
物理性质	抗拉强度		延	伸率	硬度.						
实际数值	423	[Mpa]	8	δ ₁₀ ≥[%]	126	HV1.0					
单位主管	蒋国飞			分析员	胡艳						





No. CANEC1907849510

日期: 2019年05月14日 第1页,共4页

佛山市南海毅兴铜业有限公司

中国广东省佛山市南海区狮山镇南海经济开发区北园北园中路18号

以下测试之样品是由申请者所提供及确认:黄铜棒

SGS工作编号:

CP19-021380 - GZ

型号:

C3604

样品接收日期:

2019年05月05日

测试周期:

2019年05月05日 - 2019年05月14日

测试要求:

根据客户要求测试

测试方法:

请参见下一页

测试结果:

请参见下一页

结论:

基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指

令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

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* TAZ

Violet,Shi 史丽兰 批准签署人





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No. CANEC1907849510

日期: 2019年05月14日 第2页,共4页

测试结果:

测试样品描述:

样品编号

SGS样品ID

描述

SN1

CAN19-078495.005 黄铜色金属棒

备注:

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法:

参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和

UV-Vis 进行分析.

测试项目	限值	单位	MDL	005
镉 (Cd)	100	mg/kg	2	7
铅 (Pb)	1,000	mg/kg	2	28029
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863

- (2) ▼=a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 μg/cm²)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时,无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六 价铬的状态。

备注▲:根据客户提供的声明,样品中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免,相应豁免条文(请以英文原文 为准) |ANNEX III 6(c)|:铜合金中的铅含量不得超过4%。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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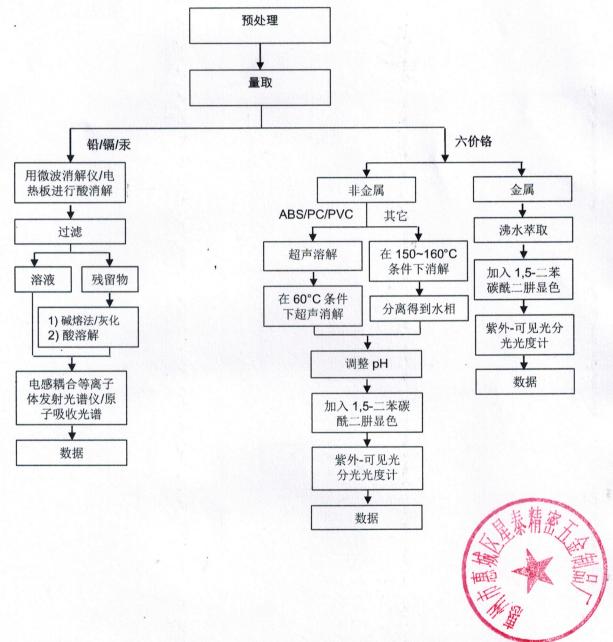
No. CANEC1907849510

日期: 2019年05月14日 第3页,共4页

附件

Pb/Cd/Hg/Cr6+测试流程图

1) 样品按照下述流程被完全消解(六价铬测试除外)。





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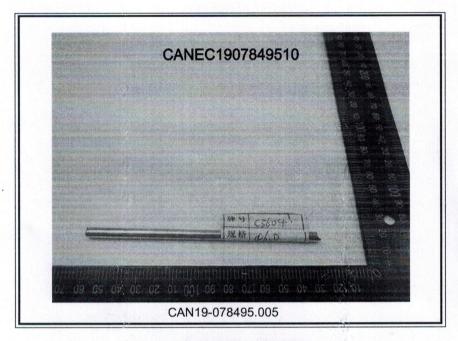
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No. CANEC1907849510

日期: 2019年05月14日 第4页,共4页

样品照片:



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*** 报告完 ***





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南海毅兴铜业有限公司化学成份测试报告及物理性能测试报告



客户名称		订单号(PO.NO)		出货日期	2019年2月25日						
国际标准	B16M-2005	试材品名	C3602	试材规格	ф6						
化学试验	CHEMICAL TESTING										
仪器名称	瑞士ARLMA Cu直该										

元素名称	铜(Cu)	锌(Zn)	铅(Pb)	铁(Fe)	锡(Sn)	铝(AI)	锰(Mn)	硅(Si)	锑(Sb)	镉(Cd)	铋(Bi)	磷(P)	镍(Ni)
试片含量	60.58	36.5587	2.0854	0.3245	0.2904	0.0672	0.0043	0.0032	0.0055	0.0030	0.0063	0.0039	0.0676

机械试验	MECHANICAL T	ESTING	. ·			
仪器名称	WD-50B电子式万	能试验机				
物理性质	抗拉强度		延伸	硬度		
实际数值	420	[Mpa]	9	δ ₁₀ ≥[%]	125	HV1.0
单位主管	蒋国飞			分析员	胡艳	

2019年2月25日



No. CANEC1907849506

日期: 2019年05月14日 第1页,共4页

佛山市南海毅兴铜业有限公司

中国广东省佛山市南海区狮山镇南海经济开发区北园北园中路18号

以下测试之样品是由申请者所提供及确认:黄铜棒

SGS工作编号:

CP19-021380 - GZ

型号:

C3602

样品接收日期:

2019年05月05日

测试周期:

2019年05月05日 - 2019年05月14日

测试要求:

根据客户要求测试

测试方法:

请参见下一页

测试结果:

请参见下一页

结论:

基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指

令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司 授权签名

史丽兰

Violet.Shi 史丽兰 批准签署人





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No. CANEC1907849506

日期: 2019年05月14日 第2页,共4页

测试结果:

测试样品描述:

样品编号

SGS样品ID

描述

SN1

CAN19-078495.003 黄铜色金属棒

备注:

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法:

参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和

UV-Vis 进行分析.

测试项目		限值	单位	MDL	<u>003</u>
镉 (Cd)		100	mg/kg	2	7
铅 (Pb)	•	1,000	mg/kg	2	208694
·汞 (Hg)		1,000	mg/kg	2	ND
六价铬(Cr(VI))▼		-	μg/cm²	0.10	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

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- (2) ▼=a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 µq/cm²与0.13 µq/cm²之间时,无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六

价铬的状态。

备注▲: 根据客户提供的声明,样品中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免,相应豁免条文(请以英文原 为准) |ANNEX III 6(c)|:铜合金中的铅含量不得超过4%。

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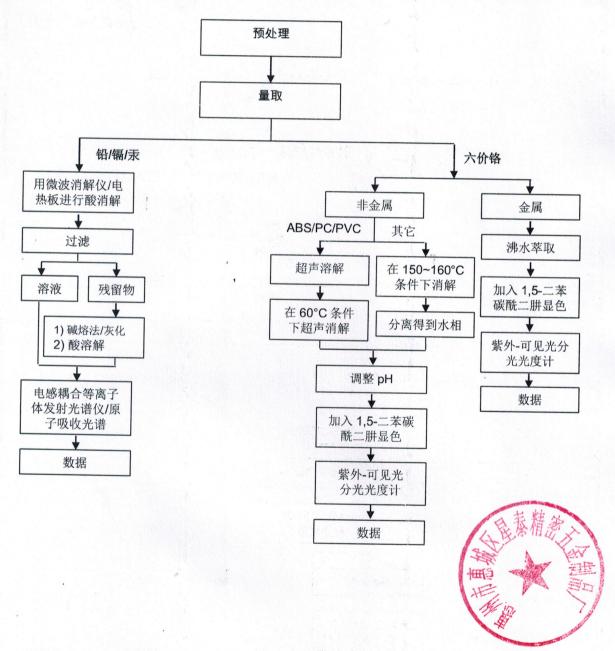
No. CANEC1907849506

日期: 2019年05月14日 第3页,共4页

附件

Pb/Cd/Hg/Cr6+测试流程图

1) 样品按照下述流程被完全消解(六价铬测试除外)。





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No. CANEC1907849506

日期: 2019年05月14日 第4页,共4页

样品照片:



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SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.深圳市明鑫工业材料有限公司

产品检测单

客户: 旭全

产品名称	磷铜	产品规格	0.20mm
产品牌号	C5210 鑫科料	产品状态	SH
厚度公差	+0/-0.01	宽度公差	+0,-0.1

化学成份(%) 执行标准: JIS H 3130:2012

10-1-100 (10)							11 3130.2012				
化学	CAS.NO	实测	标准含量	化学	CAS.NO	实测	标准含量	化学元	CAS.NO	实测	标准含量
元素		含量		元素		含量		素		含量	
铜 Cu	7440-50-8	余量	余量	锌 Zn	7440-66-6	0.15	≤0.2	铁 Fe	7439-89-6	0. 017	≤0.1
锡 Sn	7440-31-5	7. 46	7. 0-9. 0	磷 P	12185-10-3	0. 15	0.03-0.35	铅 Pb	7439-92-1	0.002	≤0.02
锑 Sb	7440-36-0			硅 Si	7440-21-3			铋 Bi	7440-69-9		
镍 Ni	7440-02-0			锰 Mn	7439-96-5			铝 Al	7429-90-5		
银 Ag	7440-22-4			砷 As	13826-64-7			镉 Cd	7440-43-9		
硫 S	7704-34- 9			钴 Co	7440-48-4			铍 Be	7440-41-7		
镁 Mg	7439-95-4			铬 Cr	7440-47-3			Cu+Sn+ P		99.77	≥99. 7

物理性能:

测试项目	实测值	标准值	测试项目	实测值标准值
抗拉强度 N/mm2	757	735-835	延伸率(%)	产品检验量。
杯突值			维氏硬度 HV	239 230-250

生产日期: 20180814

检验员:奉小勇

确认: 靳云涛



No. CANEC1822017908

Date: 31 Oct 2018

Page 1 of 6

SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO.,LTD

MINGSCHIN INDUSTRIAL PARK, NANHUAN ROAD, HEYI COMMUNITY, SHAJING TOWN, BAOAN DISTRICT, SHENZHEN

The following sample(s) was/were submitted and identified on behalf of the clients as: C5210

SGS Job No.:

CP18-057797 - SZ

Date of Sample Received:

25 Oct 2018

Testing Period:

25 Oct 2018 - 31 Oct 2018

Test Requested:

Selected test(s) as requested by client.

Test Method:

Please refer to next page(s).

Test Results:

Please refer to next page(s).

Conclusion:

Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Approved Signatory



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check the authenticity of testing (inspection report & certificate, piease contact us at telephone: (86-755) 2307 1443.

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No. CANEC1822017908

Date: 31 Oct 2018

Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID

Description

SN1

CAN18-220179.008

Copper-colored metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>008</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	13
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7.25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 $\mu g/cm^2$ and 0.13 $\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis



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Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method

3050B:1996), analysis was performed by ICP-OES.

Test Item(s)

<u>Unit</u>

MDL

<u>008</u>

Beryllium (Be)

mg/kg

5

ND



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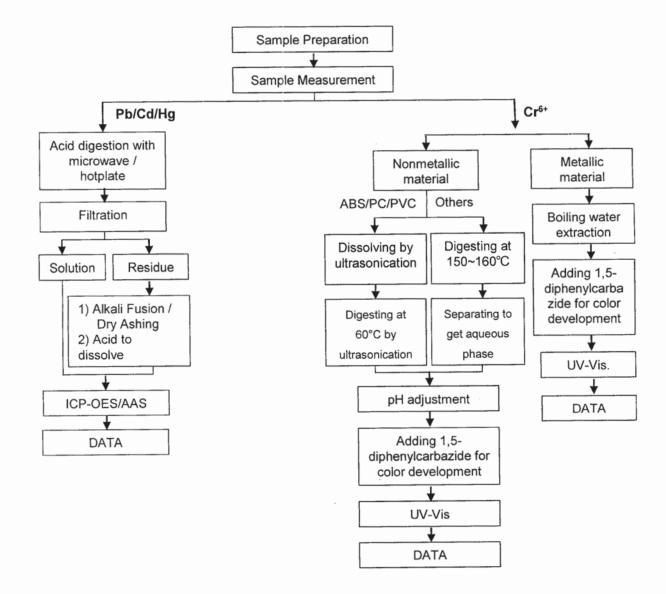
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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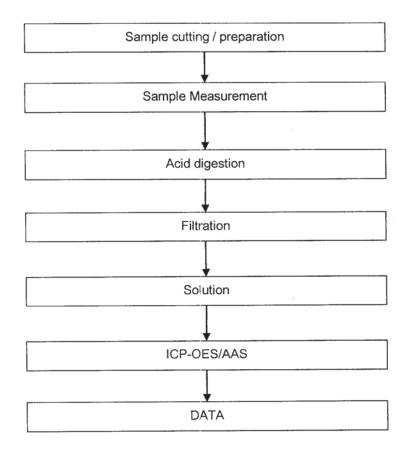
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Elementary Testing Flow Chart





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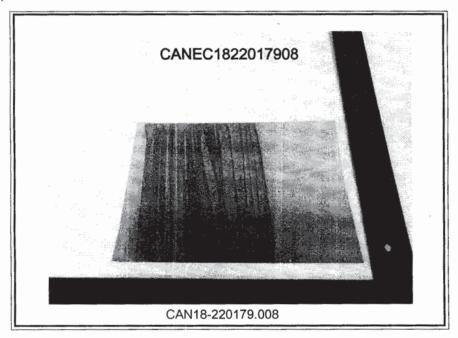


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Sample photo:



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SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.深圳市明鑫工业材料有限公司

产品检测单

客户: 旭全

产品名称	黄铜	产品规格	0.30mm
产品牌号	C2680 兴业料	产品状态	Н
厚度公差	+0/-0.015	宽度公差	+0/-0.1

执行标准: JIS H 3100:2012 化学成份(%)

10-7-M/M (707						11 5100.2012					
化学 元素	CAS.NO	实测含 量	标准含 量	化学元 素	CAS.NO	实测 含量	标准含量	化学元素	CAS.NO	实测 含量	标准含量
铜 Cu	7440-50-8	65.37	64.0-68.0	锌 Zn	7440-66-6	余量	余量	铁 Fe	7439-89-6	0. 007	≪0. 05
锡 Sn	7440-31-5			磷 P	12185-10-3			铅 Pb	7439-92-p1	0.002	≪0.05
锑 Sb	7440-36-0			硅 Si	7440-21-3			铋 Bi	7440-69-9		
镍 Ni	7440-02-0			锰 Mn	7439-96-5			铝 Al	7429-90-5		
银 Ag	7440-22-4			砷 As	13826-64-7			镉 Cd	7440-43-9		
硫 S	7704-34- 9			钴 Co	7440-48-4			碳 C	7440-44-0		
镁 Mg	7439-95-4			铬 Cr	7440-47-3			杂质总 和	18 SUA	DUSTRIAL AM	

物理性能:

测试项目	实测值	标准值	测试项目	实测值	标准值
抗拉强度 N/mm2	463	410-540	延伸率(%)	**	/
杯突值			维氏硬度 HV	145	140-160

生产日期: 20180814

检验员:奉小勇

确认: 靳云涛



No. CANEC1905747203

Date: 12 Apr 2019

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SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO.,LTD

NO.4, FURONG THIRD ROAD, XINQIAO FURONG INDUSTRIAL ZONE, SHAJING TOWN, BAO'AN DISTRICT, SHENZHEN

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680(H65)

SGS Job No.:

CP19-016777 - SZ

Date of Sample Received:

08 Apr 2019

Testing Period:

08 Apr 2019 - 12 Apr 2019

Test Requested:

Selected test(s) as requested by client.

Test Method:

Please refer to next page(s).

Test Results:

Please refer to next page(s).

Conclusion:

Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Violet, Shi

Approved Signatory

Volet Shi



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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-057472.002	Brass metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	3
Lead (Pb)	1,000	mg/kg	2	77
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19057472	Date:	12 Apr 2019	Page 3 of 7	
Test Item(s)	<u>Limit</u>	Unit	MDL	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	· -	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination
 - Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method Test Method: 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND



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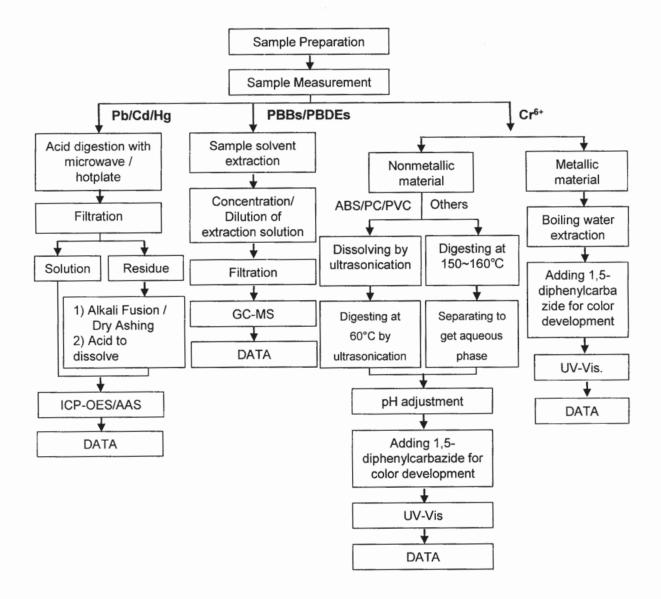
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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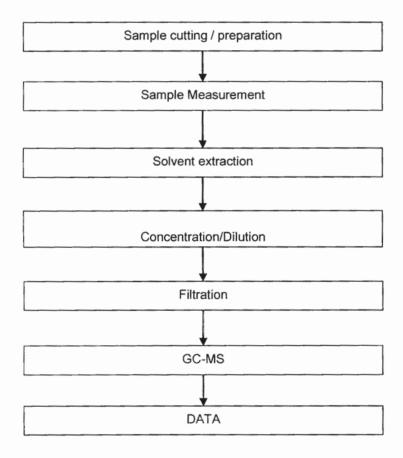
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Phthalates Testing Flow Chart





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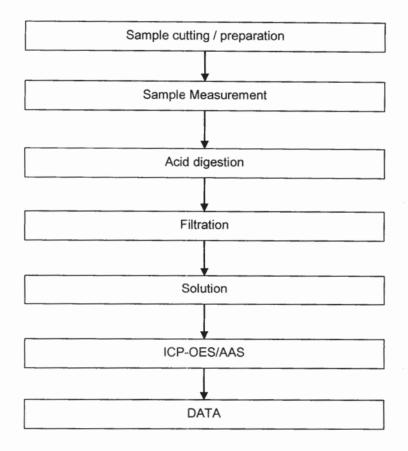
No. CANEC1905747203

Date: 12 Apr 2019

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ATTACHMENTS

Elementary Testing Flow Chart





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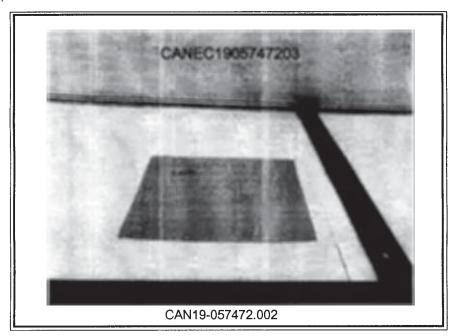


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Page 7 of 7

Sample photo:



SGS authenticate the photo on original report only *** End of Report ***



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No. SZXEC1900162708

日期: 2019年01月30日 第1页,共6页

深圳市联丰五金塑胶制品有限公司 中国深圳市龙岗区坪地镇六联老围海天工业区

以下测试之样品是由申请者所提供及确认:镀银产品

SGS工作编号:

RP19-001526 - SZ

样品接收日期:

2019年01月25日

测试周期:

2019年01月25日 - 2019年01月30日

测试要求:

根据客户要求测试

测试方法:

请参见下一页

测试结果:

请参见下一页

结论:

基于所送样品进行的测试,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯 醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄 酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的 测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值

要求。

通标标准技术服务有限公司深圳分公司 授权签名

Kitty Xu许丹萍 批准签署人



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No. SZXEC1900162708

日期: 2019年01月30日 第2页,共6页

测试结果:

测试样品描述:

样品编号

SGS样品ID

描述

SN1

SZX19-001627.004

带银色鍍层金属

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析.

测试项目	限值	单位	MDL	<u>004</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	33
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
- 溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



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测试报告	No. SZXEC190016270	日期: 2	第3页,共6页		
测试项目	限值	单位	MDL	<u>004</u>	
六溴二苯醚	•	mg/kg	5	ND	
七溴二苯醚	-	mg/kg	5	ND	
八溴二苯醚	-	mg/kg	5	ND	
九溴二苯醚	-	mg/kg	5	ND	
十溴二苯醚	-	mg/kg	5	ND	
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637.25

- (2) ▼= a. 当六价铬的浓度高于0.13 µg/cm2时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 μg/cm2)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于 $0.10 \, \mu g/cm2$ 与 $0.13 \, \mu g/cm2$ 之间时,无法直接判定是否检测到六价铬,因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。



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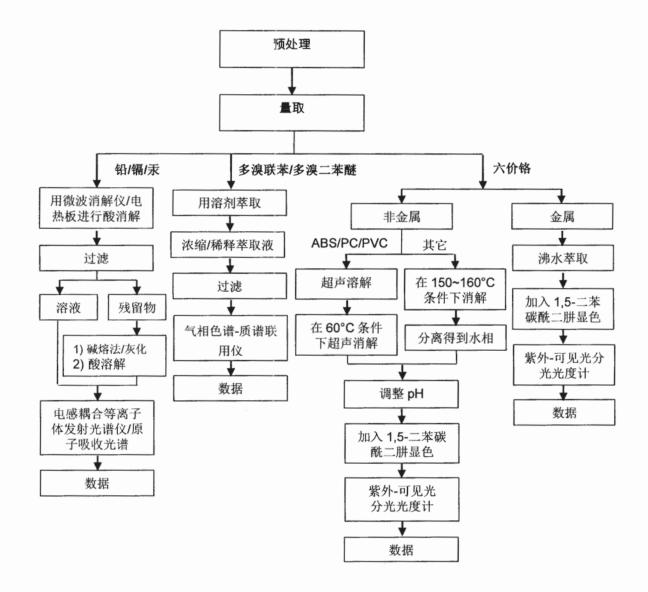
No. SZXEC1900162708

日期: 2019年01月30日 第4页,共6页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 測试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





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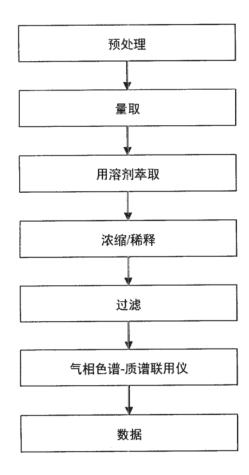


No. SZXEC1900162708

日期: 2019年01月30日 第5页,共6页

附件

Phthalates 测试流程图





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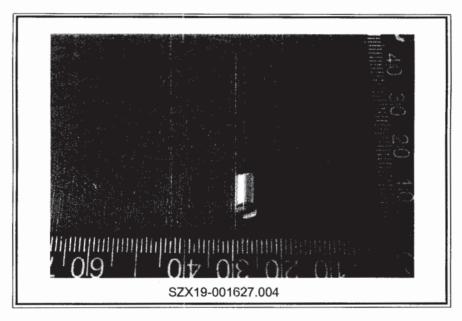
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No. SZXEC1900162708

日期: 2019年01月30日 第6页,共6页

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*** 报告完 ***



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No. SZXEC1900162706

日期: 2019年01月30日 第1页,共6页

深圳市联丰五金塑胶制品有限公司 中国深圳市龙岗区坪地镇六联老围海天工业区

以下测试之样品是由申请者所提供及确认:镀镍产品

SGS工作编号:

RP19-001526 - SZ

样品接收日期:

2019年01月25日

测试周期:

2019年01月25日 - 2019年01月30日

测试要求:

根据客户要求测试

测试方法:

请参见下一页

测试结果:

请参见下一页

结论:

基于所送样品进行的测试,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值

要求。

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评分落

Kitty Xu许丹萍 批准签署人



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No. SZXEC1900162706

日期: 2019年01月30日 第2页,共6页

测试结果:

测试样品描述:

SGS样品ID 描述 样品编号

SN1 SZX19-001627.003 带银色镀层金属

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 测试方法: 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析.

<u>测试项目</u>	限值	单位	MDL	<u>003</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	33
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
- 溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
- 溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



中国·深圳·龙岗区坂田吉华路430号江瀬工业园4栋SGS大楼 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.chlna@sgs.com



测试报告	No. SZXEC19001627	日期: 2	第3页,共6页		
测试项目	限值	单位	MDL	<u>003</u>	
六溴二苯醚	-	mg/kg	5	ND	
七溴二苯醚	-	mg/kg	5	ND	
八溴二苯醚	-	mg/kg	5	ND	
九溴二苯醚	-	mg/kg	5	ND	
十溴二苯醚	-	mg/kg	5	ND	
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

- (2) ▼= a. 当六价铬的浓度高于0.13 µg/cm2时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 µg/cm2)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时,无法直接判定是否检测到六价铬,因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。



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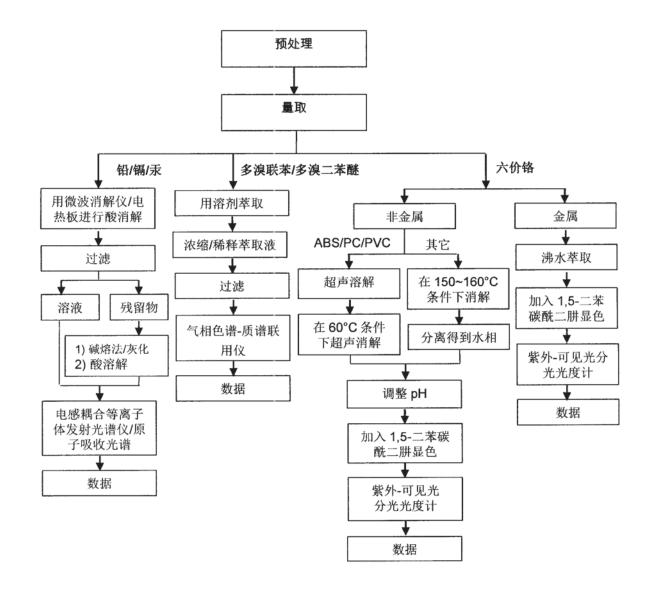
No. SZXEC1900162706

日期: 2019年01月30日 第4页,共6页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





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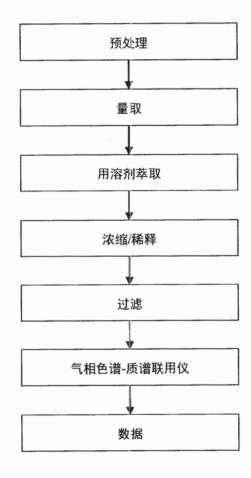


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附件

Phthalates 测试流程图



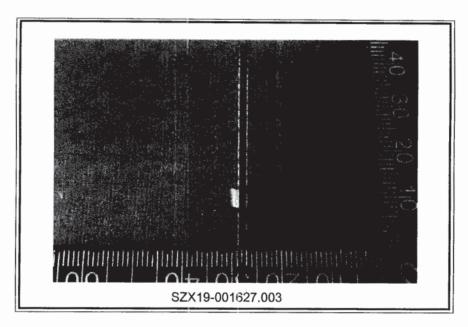




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样品照片:



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*** 报告完 ***



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不使用限用物質聲明書

Non-use of restricted substances statement



OD4-089 Rev.B2

請填寫相關資訊

Please fill in the relevant information: 公司名稱 Company name: 飛偉科技有限公司 公司負責人 Company Responsible Person: 王俊偉 立書人 Declarant: 王俊偉 立書人職稱 Declarant's Title: 負責人 本聲明書生效日期 Effective Date of this Declaration: 2017/08/03 (公司章 Company Stamp) 請勾選本聲明書適用範圍 Please Select the Scope of this Declaration: 提供給研揚的全部產品 All Products provided to AAEON 一研揚糾號 AAEON Part Number: (負責人章 Responsible Person Chop) 〗原廠料號 Manufacturer Part Number∶ 飛偉科技有限公司 (填寫公司名稱) 響應全球綠色環保法規或其他法律,保證如下事項:

- -、產品符合歐盟 RoHS (2011/65/EU)* 規範。 The product complies with EU RoHS (2011/65/EU) norms.
 - i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863, 將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中,限值仍為 1000ppm,從 2019 年 7 月 22 日起需符合此要 求,作為供應商,如果有包含上述物質,務必主動通知研揚。

(Fill in Company name) Response to global green

environmental protection regulations or other laws, guarantee the following matters:

EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from 22 July 2019 for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

> 管制文件,不可任意複製/更改 Regulatory documents that can not be arbitrarily Copy / Change

不使用限用物質聲明書

AAEON® an /SUS assoc. co.

Non-use of restricted substances statement

OD4-089 Rev.B2

ii. 當作為包材類的材料,也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU) When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)

Note: Pb+Cd+Hg+Cr⁶⁺ <100 ppm

iii. 若為電池零件,也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)

Note: Cd<20ppm; Hg <5ppm

二、產品符合衝突金屬(Conflict Metal)規範,並確認銷售產品若有含錫、鉭、鎢、金這四種礦產,來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin tantalum tungsten gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo Uganda San Tanzania Rwanda Angola, Zambia, Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範,

高關注物質(SVHC),不超過 0.1%上限,以重量計算。

備註:請參照歐盟化學總署(ECHA)網站,最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

Note: Please check ECHA website for latest SVHC list: https://echa.europa.eu/candidate-list-table

立書人提供給研揚的所有文件(含測試報告、聲明書、調查表等文件),均正確屬實並且完整。 All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.

如有違背此保證聲明書的規定,	飛偉科技有限公司	(填寫公司名稱) 將承擔相關法律責任			
並賠償研揚所受損害。					
If violates any provision of this D	(Fill in Company name)				
shall take legal responsibilities and compensate AAEON for damages and losses caused by					
this violation					

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承認書 APPROVAL SHEET

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1217

客戶料號

Cus. P/N: 1703401600

規格敘述

DESCRIPTION: 3.81mm 端子台 CABLE 160mm

審 核	業務	品 保	工程
Approved By	Sales Dept	QA Dept	Engineering Dept
王俊偉	張全生	劉江華	楊仁貴

客戶簽章

Customer Signature:

審 核	核 對	檢 驗
Approved By	Checked By	Tested By

飛偉科技有限公司 FLYINGWAY TECH CO., LTD

Address:新北市永和區中和路345號7F-4

TEL: 02-22311313 FAX: 02-22311020

CONTACT: Chino Wang

E-Mail:chino@flyingwaytech.com.tw

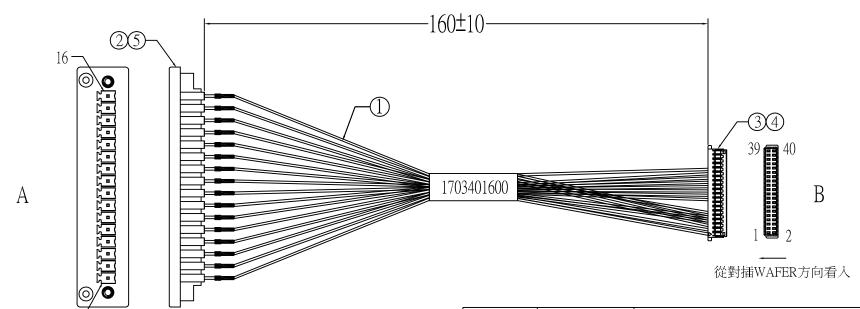
Cellphone: 0983588528

DATE: 2019/10/29

RoHS Compliant

Pin對照表

А	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
В	1	3	7	9	18	20	22	24	26	28	30	31	5	12	8	10
顏色	黑	棕	紅	橙	黄	綠	藍	白	黑	棕	紅	橙	黄	綠	藍	白



5	套管: 厚 黑	16	pcs	WORE或同級品
4	TER:11002TOP-2E	15	pcs	JCTC或同級品
3	HSG:11002H00-2*20P	1	pcs	JCTC或同級品
2	端子台:ECHP381-16P	1	pcs	DINKLE或同級品
1	線村:UL1571#28 OD=0.8	共16	pcs	瑞興或同級品
NO	品 名 規 格	數量	單位	生產廠商

客戶工程師	Jimmy	
版次	變更內容	變更日期
A	新發行	2019/04/19
В	修改PIN DEFINE	2019/05/07

飛 偉 科 技 有 限 公 司 FLYINGWAY TECH CO., LTD

TEL:02-2231-1313 FAX:02-2231-1020 E-MAIL:chino@flyingwaytech.com.tw

TITLE: 3.81mm 端子台 CABLE 160mm

FW P/N: FWAA-1217

CUS. P/N: 1703401600

REV: B DWG BY: Silvia CHECKED BY: Chino DATE: 2019/05/07

了 UL 1571 HOOK-UP WIRE 80℃ 30V 環保 SR-PVC 電子線

UL Subject 758

說明:

●導體使用單條或絞線最小至 50AWG 裸鋼或鍍錫銅

●環保 SR-PVC 絕緣

●額定溫度:80℃,額定電壓:30Volts

●可通過 UL VW-1 垂直型耐燃測試。

UL FILE NO:E108485

應用:

電子設備二次迴路中內部連接用線

Applications:

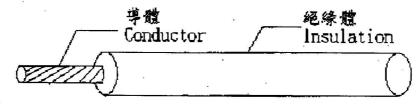
•Internal wiring in electronic equipments

Product Description:

- Tinned, annealed, attended or solid copper conductor, MIN,50AWG
- Lead FreeSR- PVC insulation.
- •Rated temperature: 80°C, Rated voltage: 30 volts.
- Uniform thickness of wire to ensure easy stripping and cutting
- Passes UL VW-1 vertical flame test.

構造及電氣性能

stucture & electric properties(UL STANDARD 758:外徑 0.70mm 以下不印字)



	額	定	導	蔻	絕緣	體		最大導體	最小絕緣	絕緣耐造
	Ran			nductor	Insulat		公差值	阻抗	阻抗	壓(VAC/min)
UL	溫度	電 壓	線號		厚 度	外徑	Tolerance	Maximum	Minimum.	Insulation
1571	Temp	Voltage	AWG	NQ./mm	Thickness	O.D	. Mm	Conductor	Insulation	Potential
	°C	V			mm	mm		Resistance Ω/km	Resistance MΩ/km	Strength
				7/0.060	0.00	0.60				
			34	7/0.060	0.20	0.60		728	ī	
			32	7/0.080	0.20	0.65		703		
多芯線 Stranded			30	7/0.100	0.20	0.70		397		
ande			28	7/0.127	0.20	0.80	e	248	5.	: 4
ed			26	7/0.160	0.20	0.90		152	,	, ,
,			24	11/0.160	0.20	1.05		88.6		
			22	17/0.160	0.20	1.20		62.5		
			20	21/0.180	0.20	1,50		39.5	15	
	80℃	30V	34	7/0.060	0.20	0.60	±0.05	728		500
			32	7/0.080	0.20	0.65		703	, .	•
先			30	7/0.100	0.20	0.70		397		
先級後銀 (ATC)			28	7/0.127	0.20	0.80		248		
分號			26	7/0.160	0.20	0.90		152		
		·	24	7/0.200	0.20	1.05		88.6	5	
25	***		30	1/0.254	0.20	0.65		377	,	
單芯線 (TA:)			28	1/0.320	0.20	0.75		245		i i
· 線			26	1/0.404	Ó.20	0.85		155		

3

瑞興電線電纜制品廠

REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承認書

SPECIFICATION

	型號 STYL	Е					UL	1571				
額	真定溫度/電壓 RATING	TEMP./V	OLT.				80°C	/30V				
11	線號 SIZE		AWG	34	32	30	28	26	24	22	20	
	芯數 NUMB	ER	NO.	7	7	7	7	7	11	17	21	
導體	銅線直徑 DIAM	IETER	MM	0.060	0.080	0.100	0.127	0.160	0.160	0.160	0180	
導體 CONDUCTOR	最小銅線直徑 MIN.DIAMETER		MM	0.054	0.074	0.090	0.117	0.150	0.150	0.150	0.170	
DUC.	導體截面積 CROSS SEC -	AVG.	CM	39.7	64	100	159	253	404	640	1020	
FOR	AREA OF COND	MIN.	CIVI	35.1	62.7	98	156	248	392	621	989	
	綾距 LAY OF BUNCH		INCH	0.40	0.40	0.40	0.50	0.60	0.70	0.80	1.25	
	最大電阻 MAX.RESI	Ω/KM	728	703	397	248	152	88.6	62.5	39.5		
絕	完成外徑 O.D. (±0.10)		MM	0.60	0.65	0.70	0.80	0.90	1.05	1.20	1.50	
線 體	絕緣體厚度 AVG		107	0.20								
USU	INSULATION THICKNESS	MIN	MM	0.15								
絕緣體 INSULATION	外被厚度 JACKET	AVG	MM									
ž	THICKNESS	MIN	IVIIVI	J								
最小絕緣 INSULA	大電阻 TION ESISTANCE		$M\Omega/KM$	15								
火花試駁	SPARK TEST		KV	2KV/0.15sec								
最小伸長	基率 ELONGATION		%				100)%				
TENSIL	最小抗張強度 STRENGTH		PSI				15	00				
	送伸長率 ER AGING)		%			OF	UNAGED	65				
	送抗張強度 TEN.ST.(A	AFTER	%			OF I	UNAGED	70				
	滄溫度/條件 AGING TE	MP./TIMI	Ε	113°C/168HRS								
耐燃燒討	対燃燒試驗 FIAME TEST				VW-1							
高溫纏繞	5溫纏繞試驗 HEAT SHOCK TEST				80°C/1HR 1.60MM MANDREL							
低溫纏繞	5溫纏繞試驗 COLD BEND TEST				-10°C/1HR 3.2MM MANDREL							
	耐電壓試驗 I NSULATION POTENTIALST				500VAC/min							

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
REVISION		洪夹	李荣	劉安輝

2600 N.W. Lake Road Camas, WA 98607-0542 United States Country Code (360) 817-5500 FAX No. (360) B17-6000 hilp://www.ul.com

Underwriters iboratories Inc.@

File E108485

Vol. 2

Issued: 01-17-97

Revised:

5-9-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

IPONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer: (342072-001)

REI HSING WIRE & CABLE CO LTD TSENG TEN INDUSTRIAL PARK

CHEN KOU

CHANG AN TOWN

DONGGUAN GUANGDONG CHINA

Applicant: (559504-001)

REI HSING WIRE CO LTD

56-5 JIUN-ING ST

SHUH-LIN CITY TAIPEI HSIEN

TAIWAN

Recognized Company: (559504-001):

SAME AS APPLICANT

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters 1 aboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such produes which comply with this Procedure and any other applicable

The Procedure ontains information for the use of the above named Manufacturer and the representative: of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the lanufacturer with the understanding that it is not to be copied, either wholly or in p: "t, and that it will be returned to Underwriters Laboratories Inc. upon

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J. J. Ritchie

Vice President

Laboratory Management and Operations-profil organization

dedicated to public safety and committed to quality service

File E108485

Sec. 1

Page 1

Issued: 1997-01-17 Revised: 2007-06-19

TABLE OF AUTHORIZED STYLES SINGLE-CONDUCTOR THERMOPLASTIC INSULATED WIRE

	Page	Issued	1	Page	Issued	T	Page	Issued	D	
F	1007	1997-06-04	F	1333	2003-12-08	F	1723	2003-12-08	Page	Issued
F	1010	2003-02-27	F	1371		F				
			-		2003-12-08		1726	2003-12-08		
F	1011	1997-06-04		1429	2004-11-24	F	1789	2004-11-24		
F	1013	1997-06-04	F	1430	1999-04-29	F	10064	2003-12-08		
F	1015	1997-06-04		1431	2004-11-24		10070	2006-07-21		
F	1028	1997-06-04	F	1497	1997-06-04		10109	2004-05-04		
	1032	2001-06-19	F	1500	1997-06-04		10198	2006-07-21		
	1061	1997-01-17		1516	2004-05-04		10362	2003-12-08		
	1080	2003-01-03		1533	2000-11-09		10368	2004-11-24	a het	
F	1095	1997-06-04	F	1538	2003-12-08	=	10369	2004-11-24		
	1164	2004-05-04		1569	2003-06-17		20002	2001 22 24		
	1180	2004-05-04	F	1571						
	1185				1997-01-17					
		2000-11-09	F	1577	2003-12-08					
or A	1198	2004-05-04	F	1581	2001-05-09					
	1199	2004-05-04		1584	2004-05-04					
	1212	2004-05-04	F	1589	2007-06-19			×		
	1213	2004-05-04		1591	2003-12-08					
	1226	2003-12-08		1592	2003-12-08					
	1227	2003-12-08		1617	1997-01-17					
	1283	2003-02-27		1618	2003-02-27			-		
Î	1285	2003-01-08		1672	2003-02-27					
	1316	2003-02-27		1674						
,					2003-02-27		130	L程部 製		
	3.	2003-12-08	F	1685	2004-11-24			09-3-19		
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Date: 30 Jan 2019

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SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : INK WHITE FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-01

Client Ref. Info.: I-PE-01;I-TPE-01; I-PP-01; I-PU-01; I-RU-01; I-TPR-01;I-PPE-01

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Date: 30 Jan 2019

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.002	White liquid	6
SN2	CAN19-014883.005	White liquid	181
SN3	CAN19-014883.008	White liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.
- 10. Results & photo(s) of this report refer to test report CANEC18142276.

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	005
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	005
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	005
I	4	Anthracene	120-12-7	0.050	005
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	005
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	005
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	005
I	8	Cobalt dichloride*	7646-79-9	0.005	005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	005
I	10	Diarsenic trioxide*	1327-53-3	0.005	005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	005
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	005
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	005
I	15	Triethyl arsenate*	15606-95-8	0.005	005
II	16	2,4-Dinitrotoluene	121-14-2	0.050	005
II	17	Acrylamide	79-06-1	0.050	005
II	18	Anthracene oil**	90640-80-5	0.050	005
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	005
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	005
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	005
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	005
II	25	Lead chromate*	7758-97-6	0.005	005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	005
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	005
III	29	Ammonium dichromate*	7789-09-5	0.005	005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	005
Ш	32	Potassium chromate*	7789-00-6	0.005	005
Ш	33	Potassium dichromate*	7778-50-9	0.005	005
III	34	Sodium chromate*	7775-11-3	0.005	005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	005
III	36	Trichloroethylene	79-01-6	0.050	005
IV	37	2-Ethoxyethanol	110-80-5	0.050	005
IV	38	2-Methoxyethanol	109-86-4	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	005
IV	40	Chromium trioxide*	1333-82-0 0.005		005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	005
V	45	1,2,3-trichloropropane	96-18-4	0.050	005
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	005
>	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	005
٧	48	1-methyl-2-pyrrolidone	872-50-4	0.050	005
V	49	2-ethoxyethyl acetate	111-15-9	0.050	005
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	005
\	51	Strontium chromate*	7789-06-2	0.005	005
VI	52	1,2-Dichloroethane	107-06-2	0.050	005
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	005
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	005
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	005
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	005



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	005
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	005
VI	60	Calcium arsenate*	7778-44-1	0.005	005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	005
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	005
VI	64	Lead dipicrate*	6477-64-1	0.005	005
VI	65	Lead styphnate*	15245-44-0	0.005	005
VI	66	N,N-dimethylacetamide	127-19-5	0.050	005
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	005
VI	68	Phenolphthalein	77-09-8	0.050	005
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	005
VI	70	Trilead diarsenate*	3687-31-8	0.005	005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	005
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	005
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	005
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	005
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	005
VII	78	Diboron trioxide*	1303-86-2	0.005	005
VII	79	Formamide	75-12-7	0.050	005
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	005
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	005
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	005
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	005
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	005
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	005
VIII	88	1-Bromopropane	106-94-5	0.050	005
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	005
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	005
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	005
VIII	93	4-Aminoazobenzene	60-09-3	0.050	005
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	005
VIII	95	4-Nonylphenol, branched and linear	-	0.050	005
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	005
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	005
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	005
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	005
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	005
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	005
VIII	103	Diethyl sulphate	64-67-5	0.050	005
VIII	104	Diisopentylphthalate	605-50-5	0.050	005
VIII	105	Dimethyl sulphate	77-78-1	0.050	005
VIII	106	Dinoseb	88-85-7	0.050	005
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	005
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	005
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	005
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	☆ 0.050	
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	005
VIII	114	Lead cyanamidate*	20837-86-9	0.005	005
VIII	115	Lead dinitrate*	10099-74-8	0.005	005
VIII	116	Lead monoxide*	1317-36-8	0.005	005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	005
VIII	121	Methoxyacetic acid	625-45-6	0.050	005
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	005
VIII	123	N,N-dimethylformamide	68-12-2	0.050	005
VIII	124	N-Methylacetamide	79-16-3	0.050	005
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	005
VIII	126	o-Aminoazotoluene	97-56-3	0.050	005
VIII	127	o-Toluidine	95-53-4	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	005
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	005
VIII	134	Tetraethyllead*	78-00-2	0.005	005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	005
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	005
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	005
IX	141	Cadmium oxide*	1306-19-0	0.005	005
IX	142	Cadmium*	7440-43-9	0.005	005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	005
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	005
Х	145	Cadmium sulphide*	1306-23-6	0.005	005
Х	146	Dihexyl phthalate	84-75-3	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	005
Х	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	005
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	005
Х	150	Lead di(acetate)*	301-04-2	0.005	005
Х	151	Trixylyl phosphate	25155-23-1	0.050	005
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	005
ΧI	153	Cadmium chloride*	10108-64-2	0.005	005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005	005
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	005
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	005
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1 0.050		005
XII	159	Cadmium fluoride*	7790-79-6	0.005	005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy l-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	005
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	005
XIV	164	1,3-propanesultone	1120-71-4	0.050	005
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	005
XIV	167	Nitrobenzene	98-95-3	0.050	005
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	005
XVI	171	4-Heptylphenol, branched and linear	-	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	005
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6 0.050		005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	005
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	005
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	005
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	005
XVIII	178	Cadmium carbonate*	513-78-0	0.005	005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	005
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	008
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	008
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	008
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	008
XIX	186	Disodium octaborate*	12008-41-2	0.005	008



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	008	
XIX	188	Ethylenediamine	107-15-3	0.050	008	
XIX	189	Lead*	7439-92-1	0.005	008	
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	008	
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	008	
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	002	
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	002	
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	002	
XX	195	Fluoranthene	206-44-0	0.050	002	
XX	196	Phenanthrene	85-01-8	0.050	002	
XX	197	Pyrene	129-00-0	0.050	002	



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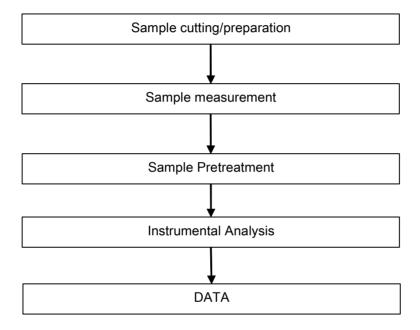
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:







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Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

This report is to supersede test report CANEC1910676513

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-02 Date of Sample Received: 05 Jun 2019

05 Jun 2019 - 12 Jun 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** SN₁ CAN19-106765.003 Black liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676519		Date: 2	21 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1.000	ma/ka	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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No. CANEC1910676519

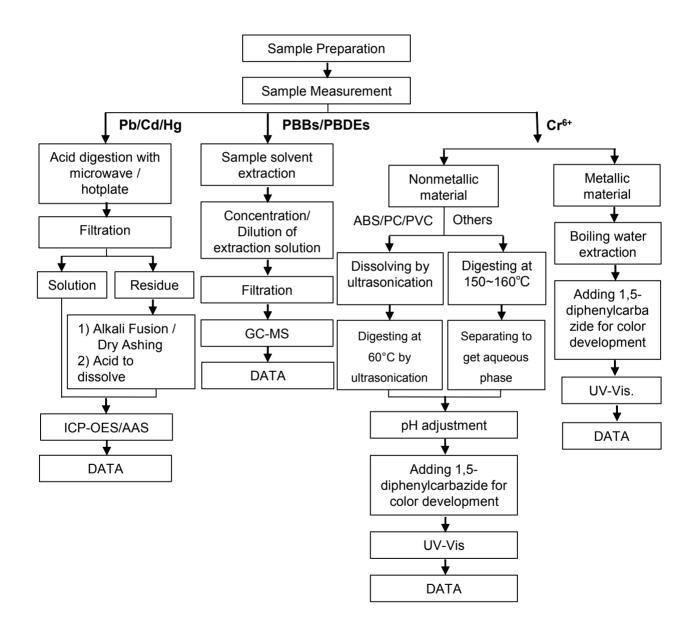
Page 4 of 6

Date: 21 Jun 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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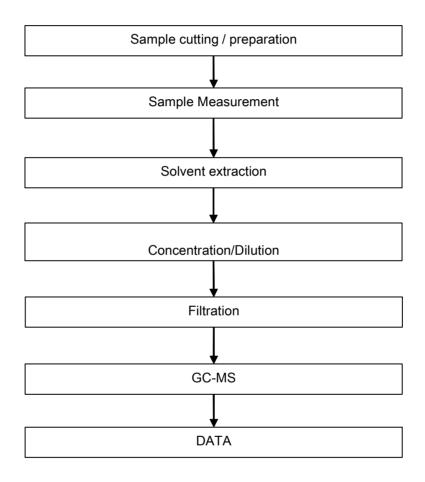
No. CANEC1910676519

Date: 21 Jun 2019

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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676519

Page 6 of 6

Date: 21 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Page 1 of 7

Report No. A2190175998101034

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BROWN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101034

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

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Report No. A2190175998101034 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		·
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101034

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	96 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Brown wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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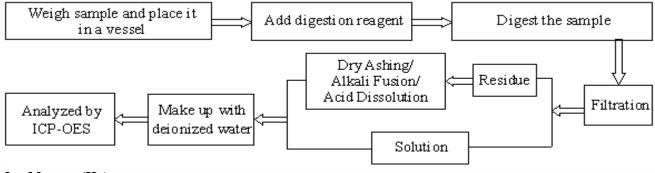


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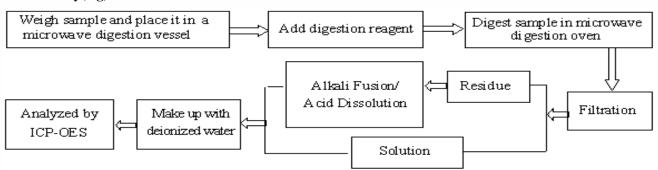
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



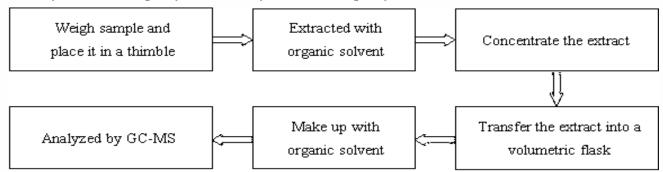
2. Mercury(Hg)

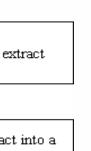


3. Hexavalent Chromium(Cr(VI))

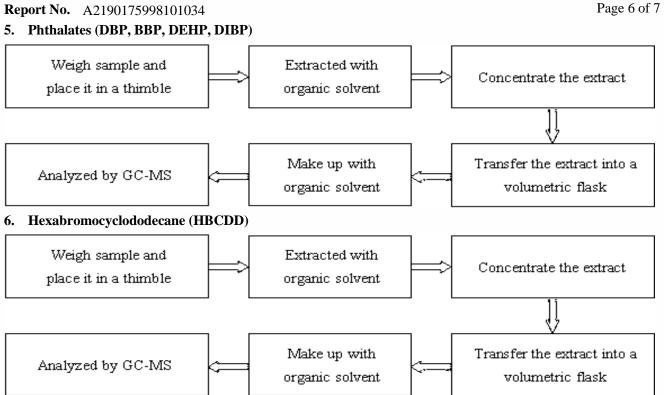


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101034

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101028

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample (s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name GREEN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internation

freme Zhang flill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101028

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

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Report No. A2190175998101028 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101028

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	350 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Green wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

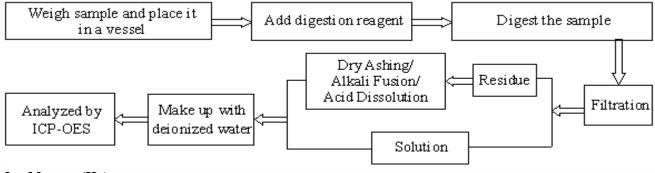


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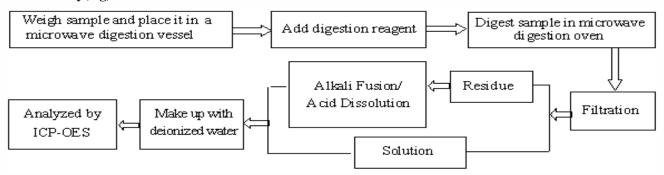
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



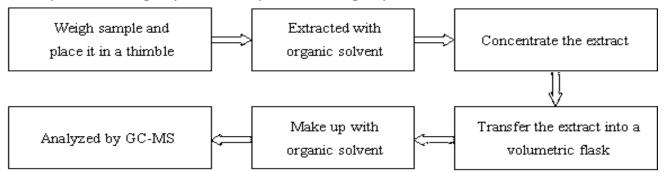
2. Mercury(Hg)



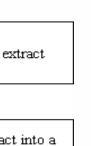
3. Hexavalent Chromium(Cr(VI))



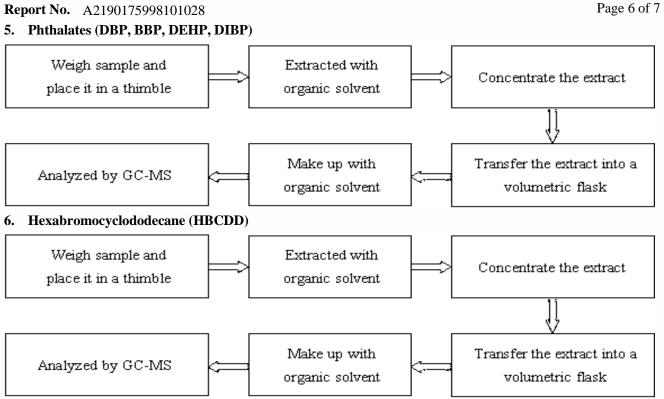
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





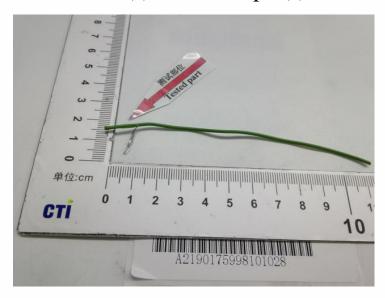




Report No. A2190175998101028

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Page 1 of

Report No. A2190175998101025

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

 $The following \ sample(s) \ and \ sample \ information \ was/were \ submitted \ and \ identified \ by/on \ the \ behalf \ of \ the \ client$

Sample Name BLUE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

from Zhang
Hill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

tre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101025

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A2190175998101025 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101025

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	102 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Blue wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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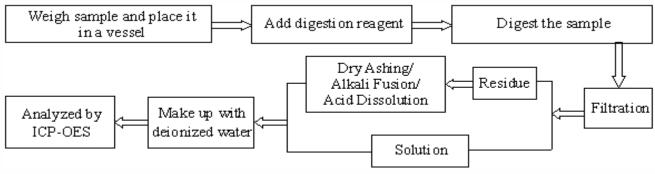


Report No. A2190175998101025

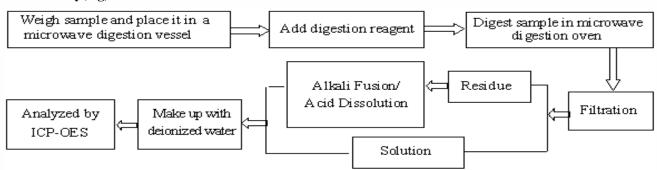
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



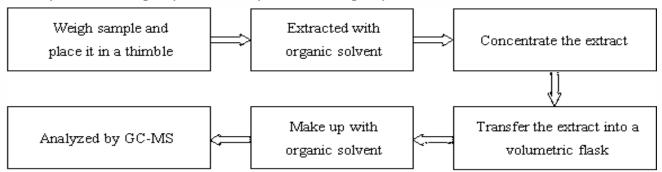
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

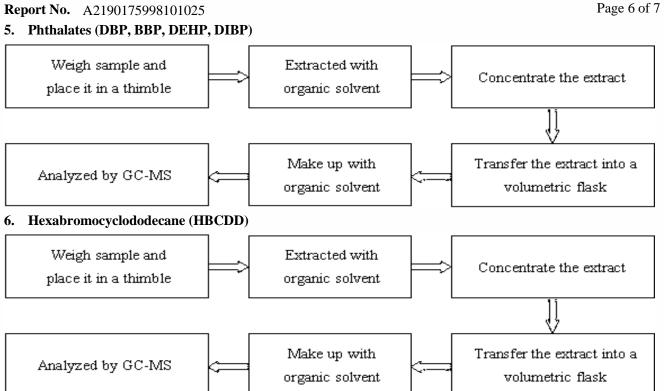


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101025

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Report No. A2190175998101019

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name YELLOW PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101019

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101019 **Test Result(s)** Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101019

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Yellow wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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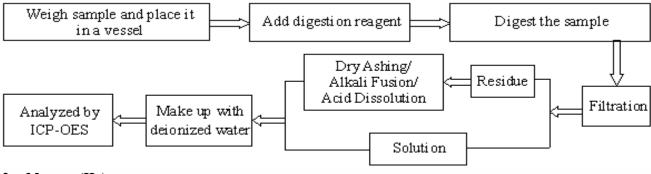


Report No. A2190175998101019

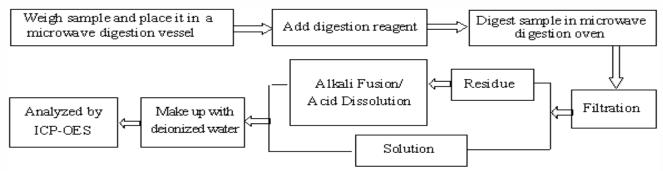
Page 5 of 7

Test Process

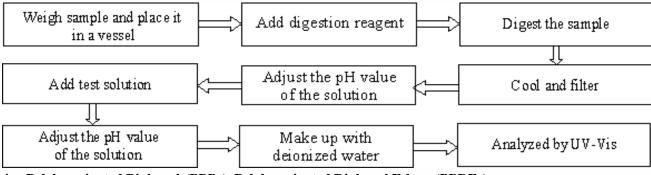
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



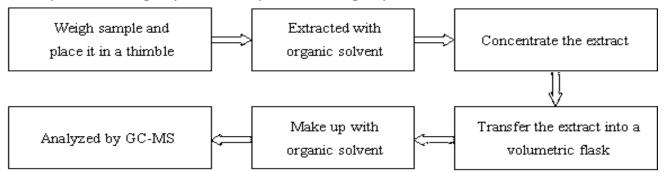
2. Mercury(Hg)

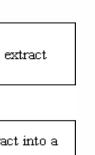


3. Hexavalent Chromium(Cr(VI))

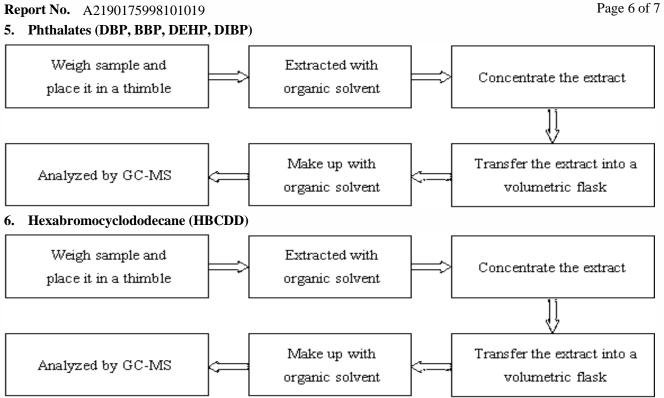


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101019

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

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Page 1 of 7

Report No. A2190175998101004

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name ORANGE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

frence Zhang flill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101004

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101004 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101004

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	88 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Orange wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

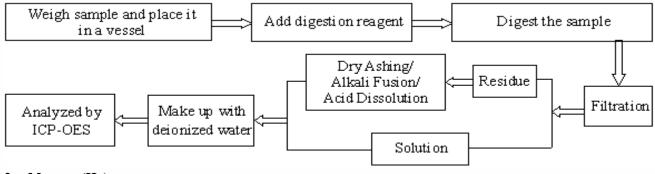


Report No. A2190175998101004

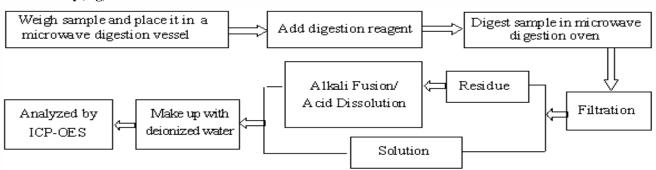
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



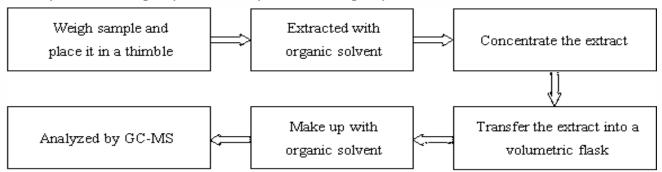
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

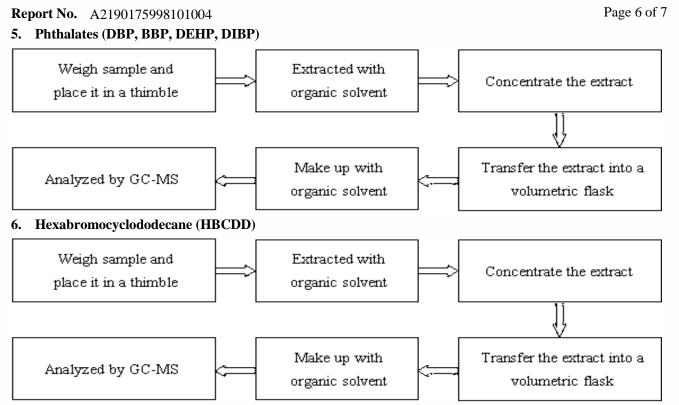


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







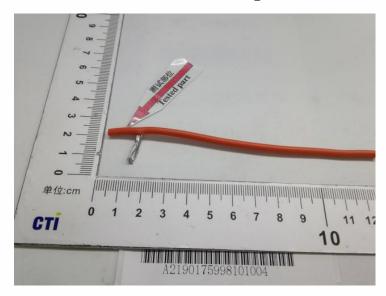




Report No. A2190175998101004

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101001

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

WHITE PVC LF INSULATED WIRE Sample Name

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Reihsing Supplier Jul. 15, 2019 Sample Received Date

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101001

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101001 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101001

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	92 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

White wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

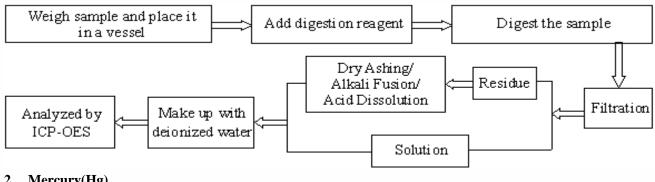


Report No. A2190175998101001

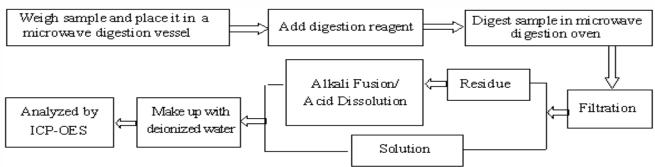
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



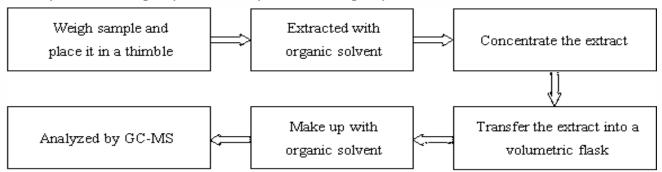
2. Mercury(Hg)

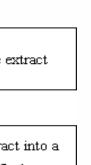


3. Hexavalent Chromium(Cr(VI))

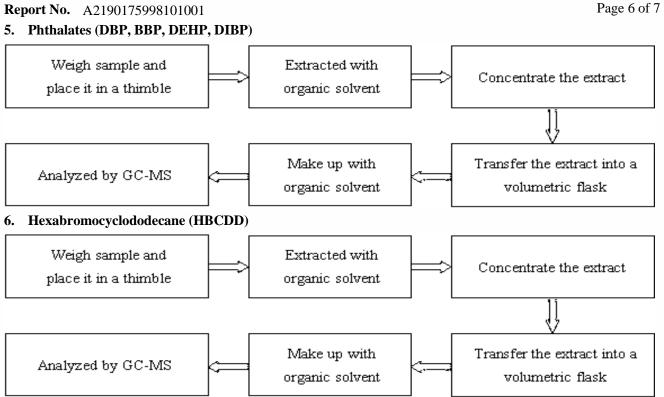


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)













Report No. A2190175998101001

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101013

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name RED PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

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Hill Zheng

Technical Manager

Pori Xia Reviewed by

Jul. 18, 2019

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



Report No. A2190175998101013

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101013 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101013

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Test Result(s)

Tested Item(s)	Result	MDL		
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg		
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg		
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg		
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg		
Tested Item(s)	Result	MDL		
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg		

Sample/Part Description

Red wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

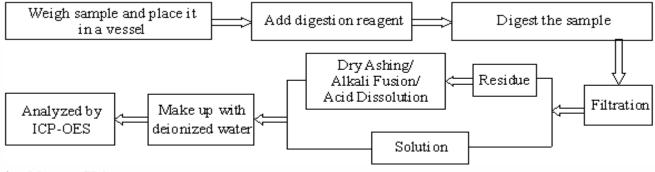


Report No. A2190175998101013

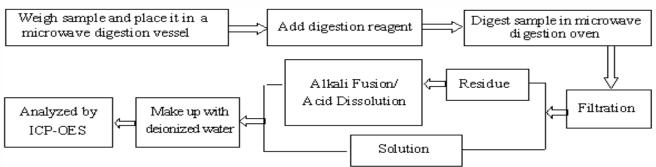
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



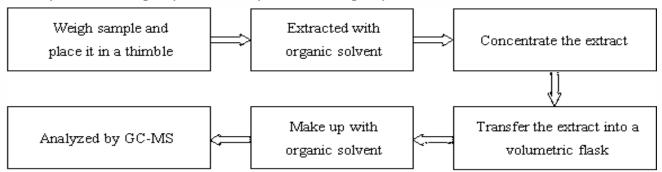
2. Mercury(Hg)

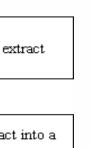


3. Hexavalent Chromium(Cr(VI))

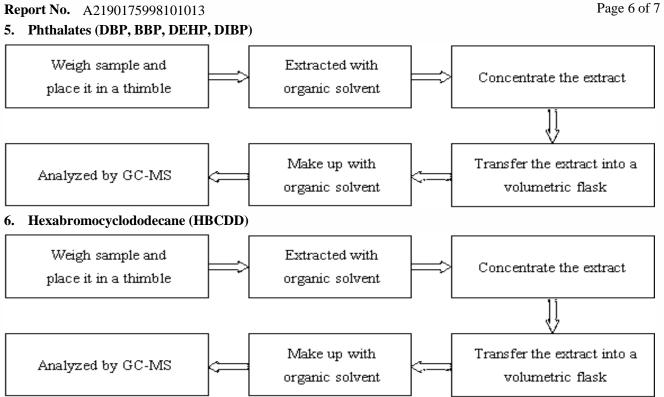


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







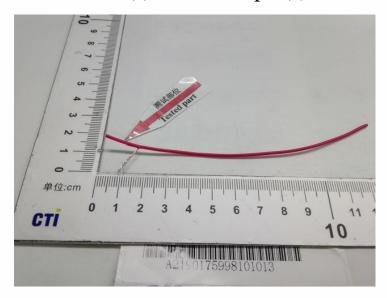




Report No. A2190175998101013

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
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Report No. A2190175998101010

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BLACK PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing

Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

ting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101010

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101010 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101010

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL		
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg		
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg		
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	138 mg/kg	50 mg/kg		
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg		
Tested Item(s)	Result	MDL		
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg		

Sample/Part Description

Black wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

7/0

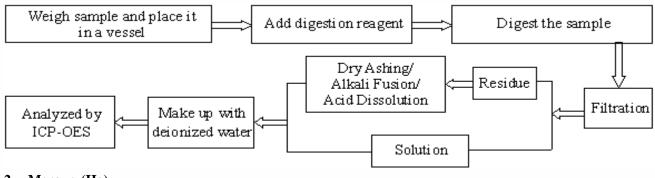


Report No. A2190175998101010

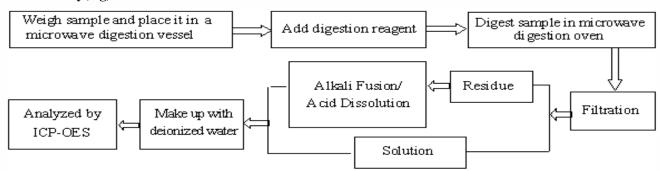
Page 5 of 7

Test Process

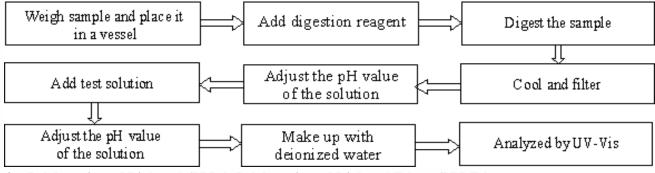
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



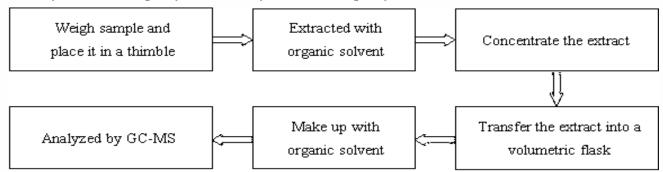
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

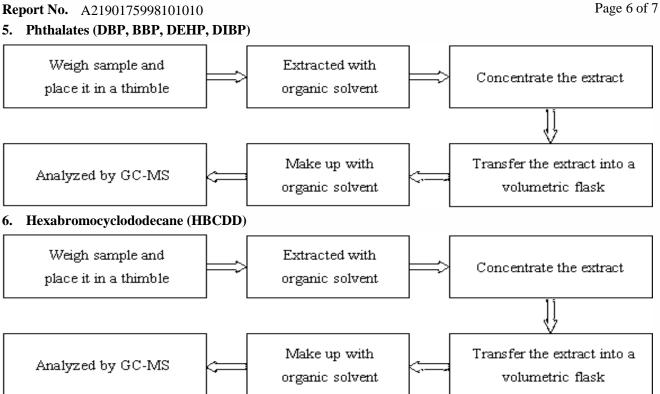


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101010

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 1 of 7

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.



Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-040324.001 Copper colored metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19040324	401	Date: 2	21 Mar 2019	Page 3 of 7
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND



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No. CANEC1904032401

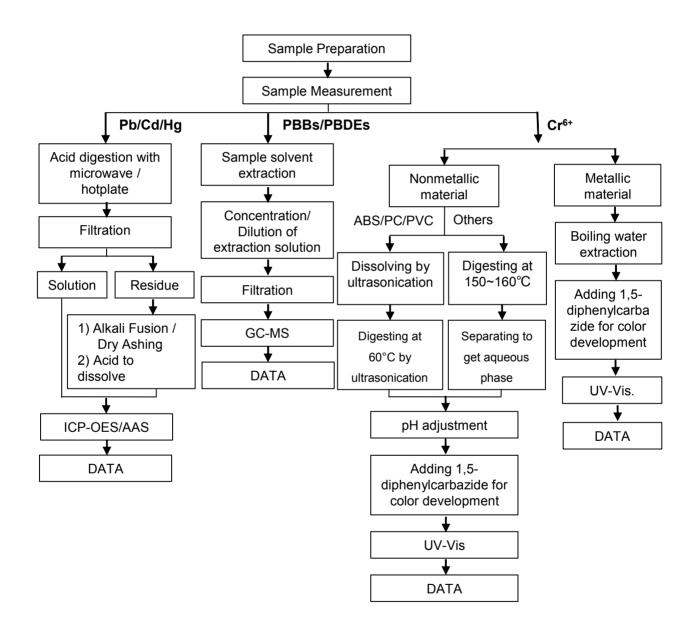
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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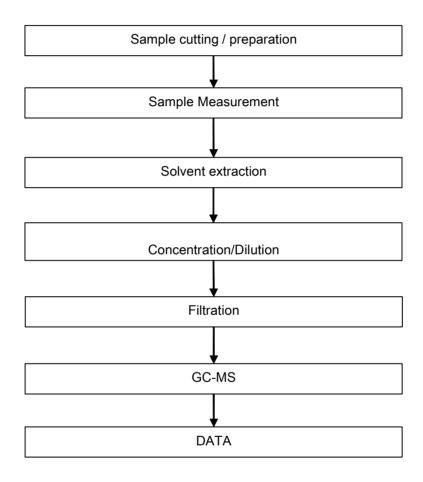
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Phthalates Testing Flow Chart





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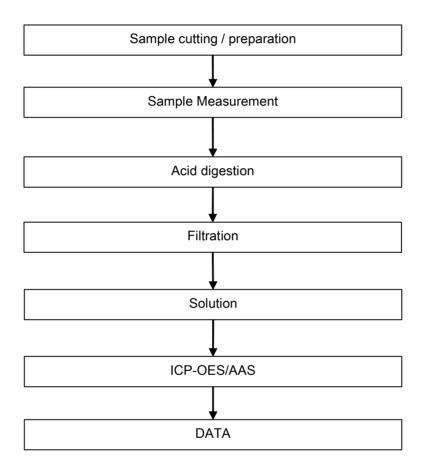
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD
QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE, TINNED COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the

notification of WTO on Feb 7, 2019.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Nobet Shi



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of \geq 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or \geq 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.003	Copper colored metal wire(a)+silvery plated
		metal wire(b)

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC
- 10. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
1	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	×	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Χ	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050



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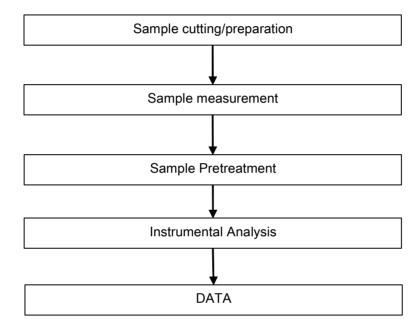
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1904032402 Date: 21 Mar 2019 Page 1 of 12

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: TINNED COPPER

WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN19-040324.002 Silvery plated metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

中国·广州·经济技术开发区科学城科珠路198号



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Test Report	No. CANEC1904032402		Date: 21 Mar 2019		Page 3 of 12	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>		
Hexabromodiphenyl ether	-	mg/kg	5	ND		
Heptabromodiphenyl ether	-	mg/kg	5	ND		
Octabromodiphenyl ether	-	mg/kg	5	ND		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND		
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND		
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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Test Report	No. CANEC1904032402	Date: 21 Mar 2019	Page	e 4 of 12
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ac		mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Ar	nthracene,			
Fluoranthene		ma == // - ==		ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category	3
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	foreseeable contact to skin for longer than 30 s		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

PFOS (Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s) CAS NO. Unit MDL 002
Perfluorooctane Sulfonates (PFOS)^ - mg/kg 10 ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,



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N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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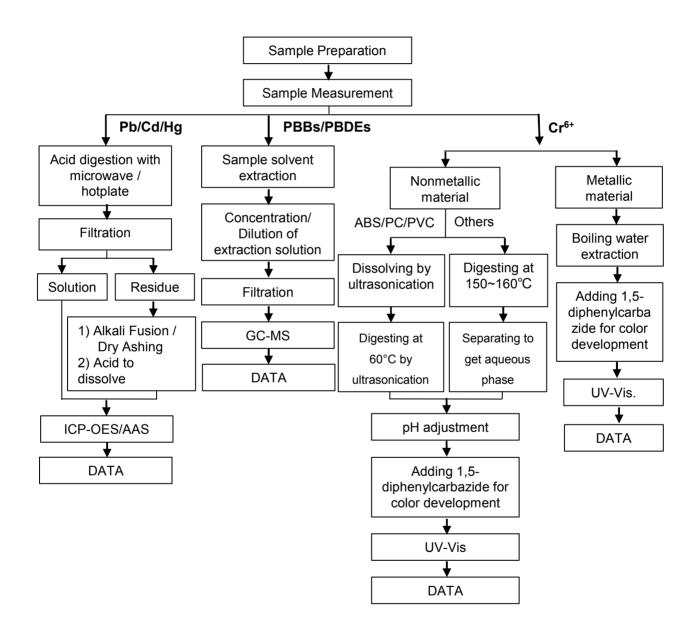
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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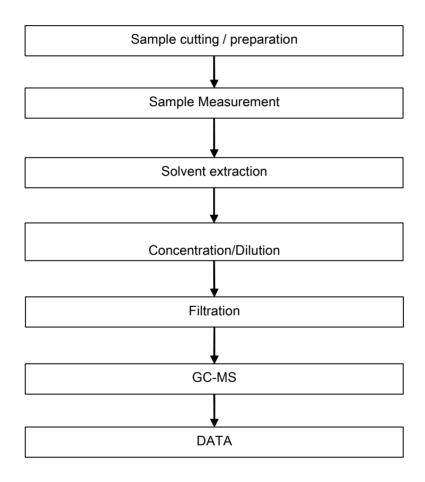
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Phthalates Testing Flow Chart





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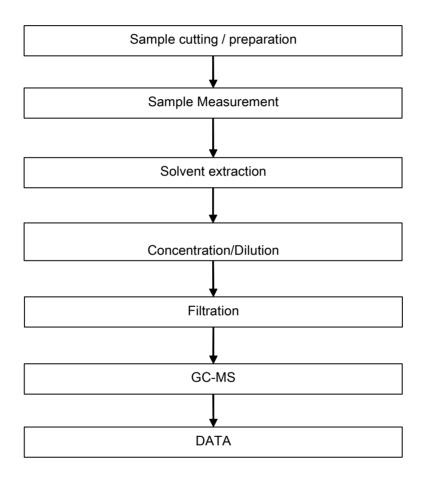
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PAHs Testing Flow Chart





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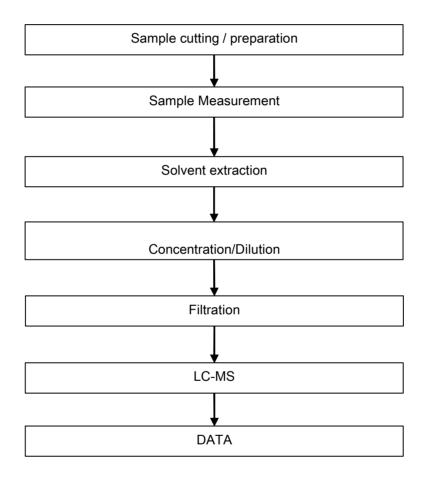
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PFOA / PFOS Testing Flow Chart





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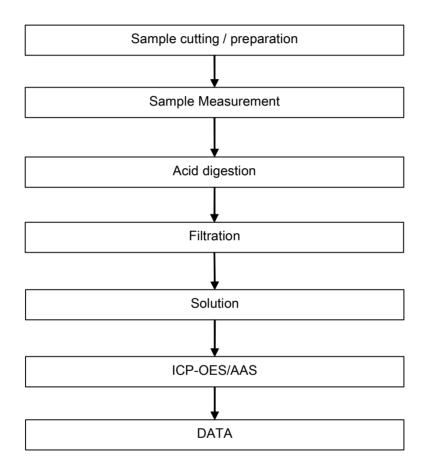
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-02

Client Ref. Info. : I-PE-02;I-PP-02; I-PU-02; I-RU-02; I-TPR-02;I-PPE-02

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

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If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.001	Black liquid	6
SN2	CAN19-014883.004	Black liquid	181
SN3	CAN19-014883.007	Black liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
_	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	004
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	004
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	004
I	4	Anthracene	120-12-7	0.050	004
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	004
_	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	004
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	004
I	8	Cobalt dichloride*	7646-79-9	0.005	004
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	004
I	10	Diarsenic trioxide*	1327-53-3	0.005	004
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	004
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	004
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005	004
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	004
I	15	Triethyl arsenate*	15606-95-8	0.005	004
II	16	2,4-Dinitrotoluene	121-14-2	0.050	004
II	17	Acrylamide	79-06-1	0.050	004
II	18	Anthracene oil**	90640-80-5	0.050	004
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	004
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	004
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	004
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	004
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	004
II	25	Lead chromate*	7758-97-6	0.005	004
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	004
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	004
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	004
III	29	Ammonium dichromate*	7789-09-5	0.005	004
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	004
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	004
Ш	32	Potassium chromate*	7789-00-6	0.005	004
Ш	33	Potassium dichromate*	7778-50-9	0.005	004
III	34	Sodium chromate*	7775-11-3	0.005	004
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	004
III	36	Trichloroethylene	79-01-6	0.050	004
IV	37	2-Ethoxyethanol	110-80-5	0.050	004
IV	38	2-Methoxyethanol	109-86-4	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	004
IV	40	Chromium trioxide*	1333-82-0	0.005	004
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	004
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	004
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	004
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	004
V	45	1,2,3-trichloropropane	96-18-4	0.050	004
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	004
\	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	004
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	004
V	49	2-ethoxyethyl acetate	111-15-9	0.050	004
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	004
V	51	Strontium chromate*	7789-06-2	0.005	004
VI	52	1,2-Dichloroethane	107-06-2	0.050	004
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	004
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	004
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	004
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	004
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	004
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	004
VI	60	Calcium arsenate*	7778-44-1	0.005	004
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	004
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	004
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	004
VI	64	Lead dipicrate*	6477-64-1	0.005	004
VI	65	Lead styphnate*	15245-44-0	0.005	004
VI	66	N,N-dimethylacetamide	127-19-5	0.050	004
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	004
VI	68	Phenolphthalein	77-09-8	0.050	004
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	004
VI	70	Trilead diarsenate*	3687-31-8	0.005	004
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	004
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	004
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	004
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	004
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	004
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	004
VII	78	Diboron trioxide*	1303-86-2	0.005	004
VII	79	Formamide	75-12-7	0.050	004
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	004
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	004
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	004
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	004
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	004
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	004
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	004
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	004
VIII	88	1-Bromopropane	106-94-5	0.050	004
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	004
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	004
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	004
VIII	93	4-Aminoazobenzene	60-09-3	0.050	004
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	004
VIII	95	4-Nonylphenol, branched and linear	-	0.050	004
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	004
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	004
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	004
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	004
III	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	004
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	004
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	004
VIII	103	Diethyl sulphate	64-67-5	0.050	004
VIII	104	Diisopentylphthalate	605-50-5	0.050	004
VIII	105	Dimethyl sulphate	77-78-1	0.050	004
VIII	106	Dinoseb	88-85-7	0.050	004
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	004
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	004
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	004
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	004
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	004
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	004
VIII	114	Lead cyanamidate*	20837-86-9	0.005	004
VIII	115	Lead dinitrate*	10099-74-8	0.005	004
VIII	116	Lead monoxide*	1317-36-8	0.005	004
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	004
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	004
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	004
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	004
VIII	121	Methoxyacetic acid	625-45-6	0.050	004
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	004
VIII	123	N,N-dimethylformamide	68-12-2	0.050	004
VIII	124	N-Methylacetamide	79-16-3	0.050	004
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	004
VIII	126	o-Aminoazotoluene	97-56-3	0.050	004
VIII	127	o-Toluidine	95-53-4	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	004
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	004
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	004
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	004
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	004
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	004
VIII	134	Tetraethyllead*	78-00-2	0.005	004
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	004
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	004
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	004
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	004
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	004
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	004
IX	141	Cadmium oxide*	1306-19-0	0.005	004
IX	142	Cadmium*	7440-43-9	0.005	004
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	004
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	004
Х	145	Cadmium sulphide*	1306-23-6	0.005	004
Х	146	Dihexyl phthalate	84-75-3	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	004	
X	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	004	
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	004	
Х	150	Lead di(acetate)*	301-04-2	0.005	004	
Х	151	Trixylyl phosphate	25155-23-1	0.050	004	
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4 0.050		004	
XI	153	Cadmium chloride*	10108-64-2	0.005	004	
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	004	
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	004	
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	004	
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	004	
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	004	
XII	159	Cadmium fluoride*	7790-79-6	0.005	004	
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	004	



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	004
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	004
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	004
XIV	164	1,3-propanesultone	1120-71-4	0.050	004
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	004
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	004
XIV	167	Nitrobenzene	98-95-3	0.050	004
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	004
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	004
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	004
XVI	171	4-Heptylphenol, branched and linear	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 0.050 76-2,3830-45-3		004	
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	004	
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	004	
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	004	
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	004	
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	004	
XVIII	178	Cadmium carbonate*	513-78-0	0.005	004	
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	004	
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	004	
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	004	
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	007	
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	007	
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6 0.050		007	
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7 0.050 0		007	
XIX	186	Disodium octaborate*	12008-41-2	0.005	007	



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	007	
XIX	188	Ethylenediamine	107-15-3	0.050	007	
XIX	189	Lead*	7439-92-1	0.005	007	
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	007	
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	007	
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8 0.050		001	
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6 0.050		001	
XX	194	Benzo[k]fluoranthene	207-08-9 0.050		001	
XX	195	Fluoranthene	206-44-0 0.050		001	
XX	196	Phenanthrene	85-01-8	1-8 0.050		
XX	197	Pyrene	129-00-0	0.050	001	



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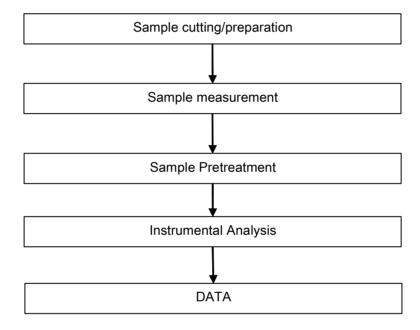
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ATTACHMENTS

SVHC Testing Flow Chart





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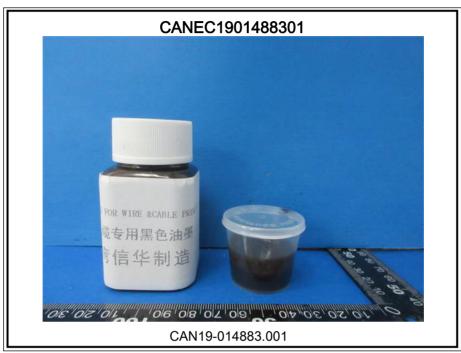


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The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-01 Date of Sample Received: 05 Jun 2019

Testing Period: 05 Jun 2019 - 12 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-106765.002 White liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676507		Date: 12 Jun 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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No. CANEC1910676507

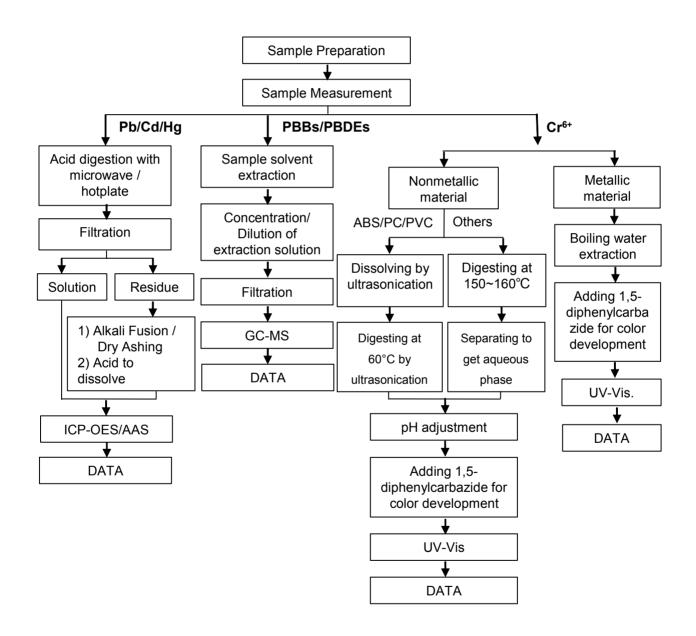
Page 4 of 6

Date: 12 Jun 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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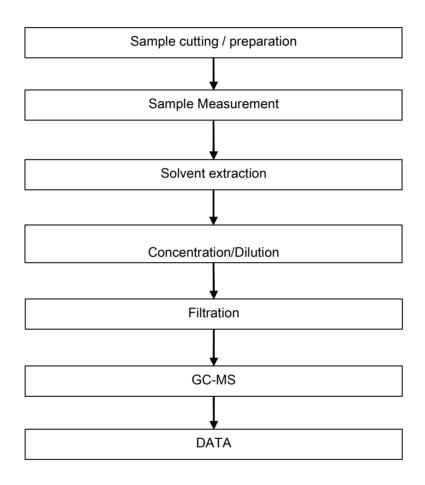
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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676507

Page 6 of 6

Date: 12 Jun 2019

Sample photo:



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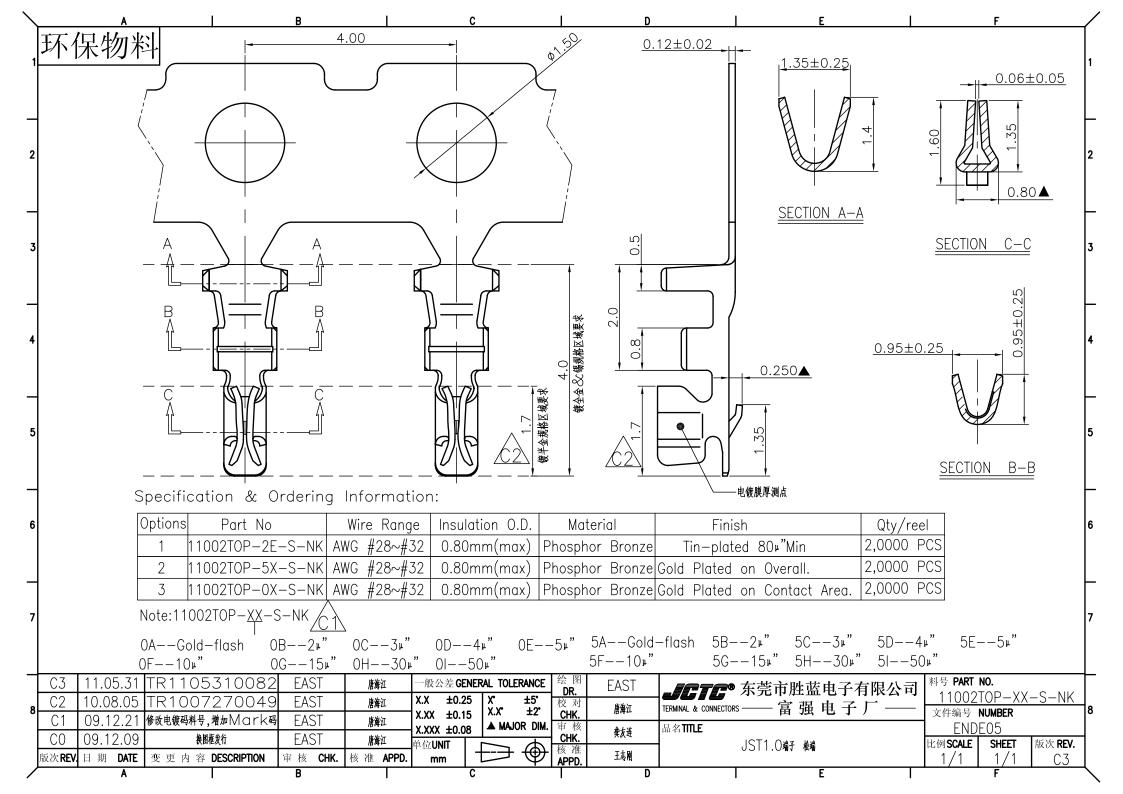
*** End of Report ***

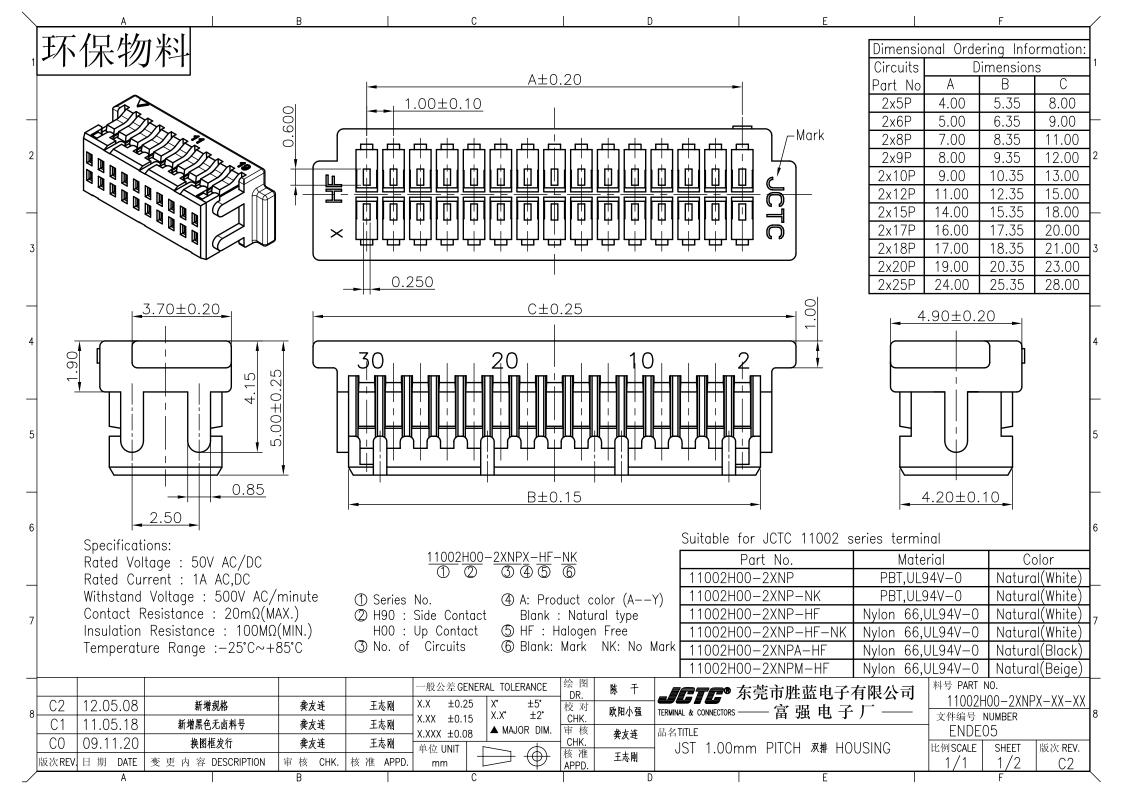


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Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

DONGGUAN CITY SHENGLAN ELECTRONICS CO LTD

F338796

Hexin Rd

Shatou District

Changan

Dongguan, Guangdong 523846 CHINA

Connectors, Model(s) Cat. No. 11002H00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 17, 18, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W90, follow by -2X, follow by 5, 6, 8, 9, 10, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11253H, followed by -20 or -30, followed by P.

Cat. No. 11253W, followed by -20 or -30, followed by P.

Cat. No. 11258H00, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow A thru Z or 1 thru 9.

Cat. No. 11258W90, follow by -S, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Cat. No. 12002H00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W90, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Cat. No. 12505W00, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12505W90, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P. $\,$

Cat. No. 12543H, followed by -2 thru -20, followed by P.

Cat. No. 12547H00, followed by -3 thru -8, followed by P.

Cat. No. 13502W90, followed by -2P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9.

Cat. No. 13962H00, 13962W00 and 13962W90, followed by -2P thru -10P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by - A thru -Z, or -0 thru -9.

Cat. No. 22001H, followed by -2 thru -16, followed by P.

Cat. No. 22501H, followed by -2 thru -14, followed by P.

Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.

Cat. Nos. 11001H and 11001W, followed by -30, followed by P.

Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.

Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.

Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.

Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.

Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.

Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.

Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.

Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.

Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.

Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.

Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.

Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.

Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.

Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.

Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.

Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.

Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.

Cat. Nos. 51274H-7P and 51275H-7P.

Marking: Company name and model designation on the device or carton.

Last Updated on 2014-04-25

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Test Report No. CANEC1917598907 Date: 17 Sep 2019 Page 1 of 19

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Nylon 66 UL 94V-0 Natural color housing

SGS Job No. : CP19-049304 - SZ

Tested Sample Info.: Nylon 66 UL 94V-0 Natural color housing

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 05 Sep 2019

Testing Period : 05 Sep 2019 - 17 Sep 2019

Test Requested : Selected test(s) as requested by client.

中国·广州·经济技术开发区科学城科珠路198号

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalate	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)	See Results



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1917598907

Page 2 of 19

Date: 17 Sep 2019

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessieli

Jessie Li Approved Signatory



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No. CANEC1917598907 Date: 17 Sep 2019 Page 3 of 19

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** CAN19-175989.003 SN₁ White material

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
100	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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-	mg/kg	5	ND
	100 1000 1000 1000 1000	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - mg/kg	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - - mg/kg 5 -



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637.25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method Test Method:

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

Tetrabromobisphenol A (TBBP-A)

Test Method: SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996),

analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Red Phosphor



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Test Method: SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS/

ICP-OES.

003 Test Item(s) Unit **MDL** Red phosphorus 500 ND mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category	3
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact. Materials not falling under category 1 or 2 with foresee contact to skin for less than (short-term skin contact).		foreseeable ss than 30 s	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	003
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, γ-HBCDD)			



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Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	003
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.01	ND
alkyl esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.01	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.



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In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

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iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

Phthalate(s)

Test Method: With reference to SGS in house method (SGS-CCL-TOP-042-41), analysis was performed by

LC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND

<u>European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins)</u> (SCCPs)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)	-	mg/kg	50	ND
(MCCPs)				

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

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Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS) [^]		mg/kg	0.01	ND



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Notes:

(1) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid. Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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REMARK 10001、10500、10800、11001、11002、11003、11004、11005、11006、11007、11008、 11201、11202、11204、11250、11251、11252、11253、11254、11255、11256、11257、 11258、11259、11270、11500、11501、11502、11503、11508、11800、11801、12001、 12002、12003、12004、12005、12006、12007、12008、12009、12010、12011、12012、 12013, 12014, 12015, 12016, 12017, 12018, 12501, 12502, 12503, 12504, 12505, 12506、12508、12509、12540、12541、12542、12543、12544、12545、12546、12547、 12548, 12549, 13402, 13502, 13601, 13961, 13962, 13963, 14000, 15001, 15002, 15080, 17921, 20001, 20501, 20502, 20503, 20602, 20800, 20803, 21001, 21251, 21501、21611、21811、21813、21814、21816、21817、21818、21819、22001、22501、 32001, 33001, 33002, 34201, 34202, 35401, 34502, 35081, 35082, 36201, 36202, 40301, 40302, 40303, 40305, 40306, 40501, 40502, 40503, 40504, 40505, 40506, 40507, 40508, 40513, 40536, 40559, 40561, 40562, 40583, 40584, 40586, 41001, 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50501, 50601, 50602, 50801, 50802, 51001, 51050, 51271, 51272, 51274, 51275, 51276, 51277, 51278, 51279, 51280, 52001, 52002, 52003, 52004, 52005, 52006, 52041, 52042, 52401, 52501, 52502, 52503, 52504, 54003, 54301, 55001, 60000, 60001、60100、61001、61002、61003、61004、61005、61006、61007、61008、61009、 61010、61013、61100、61270、62001、62291、62771、62772、63100、64001、64100、 65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、70500、 70600, 70801, 70901, 70910, 71008, 71101, 72001, 72007, 72008, 72010, 72101, 81290、81290、LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、 TNDA3, JTHA8, SAF85, UAHA2, TNA11, TNDA3, RJCA9, RJHA6, DSB11, MCB11, UAB11, WFB11, WTB11, RJB11, HDB11, HDB12, HDB13, UCB11, UBB1B, UBB11, UAB16, UADB8, JAB11, YB, TP, MCMBE1, UMB1B, RJMAE2, BUA0CB, BUA0CB, UCMAJ1, BS0130, RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1, TNTAE1, UCMAJ1, TNTBT3, 9001, 9002, 5000102, BT035210, THREE IN ONE, FOUR IN ONE, USB, HDMI, RJ, 0308, XSB0, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO, OEM, TNAOPO, SCA, TUAOPH, SUAS02, AWDANW, AWDCIW, AWDATB, AHFANB, TNTBC1, TNB12, TNKBG1/2/3/4, UBB14, US90, HE103A, BCO, WUSF5526, UBDU2、UBMBS1/2、BB0、BPO、HD9A、PIN、TUA0PX、6500、BS0261、B0032、BP0156、 BP0237, BT035210, HP HS, N85, QB140, UC, Charging gun, BB0158, B0026, SA96, SA95, U1B, AT89, TN, UBB



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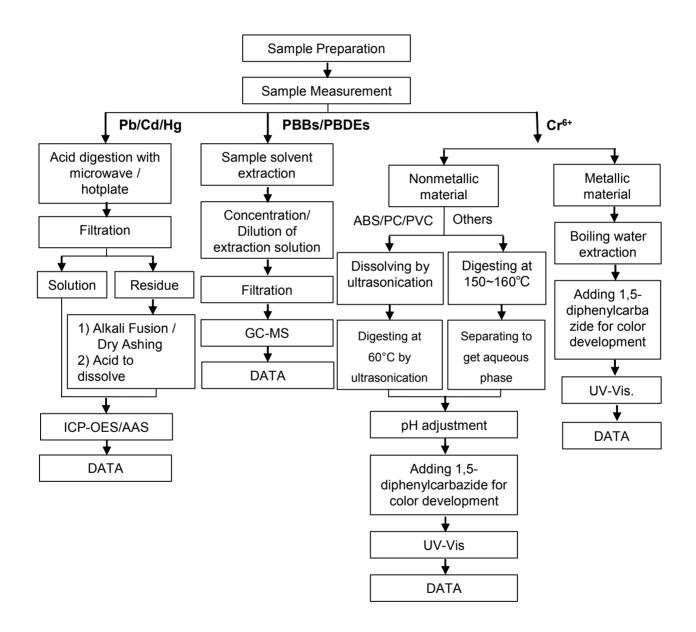
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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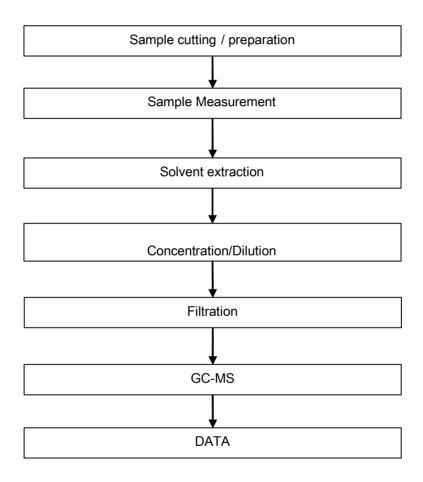
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Phthalates Testing Flow Chart





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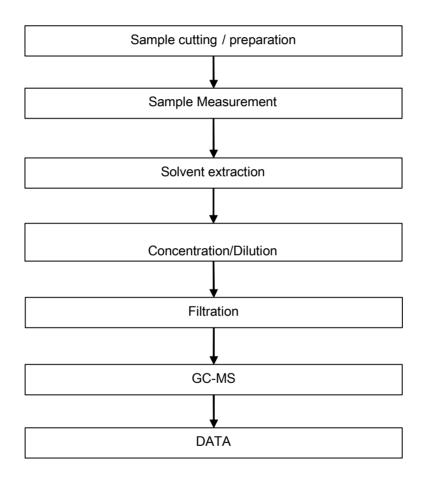
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HBCDD Testing Flow Chart





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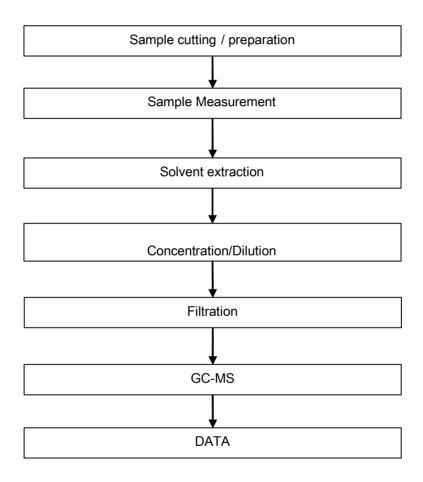
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PAHs Testing Flow Chart





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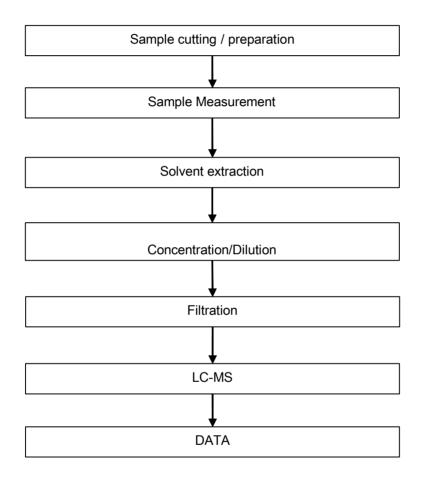
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PFOA / PFOS Testing Flow Chart





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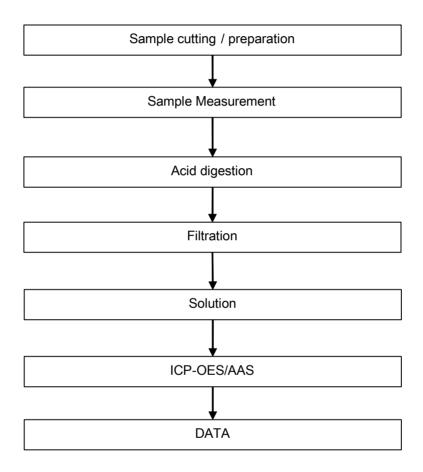
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Elementary Testing Flow Chart





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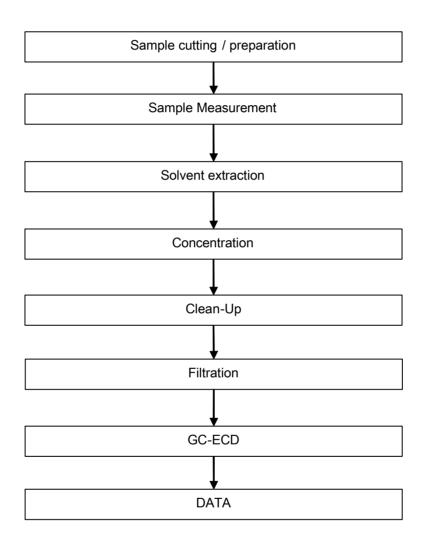
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SCCP/MCCP/LCCP Testing Flow Chart





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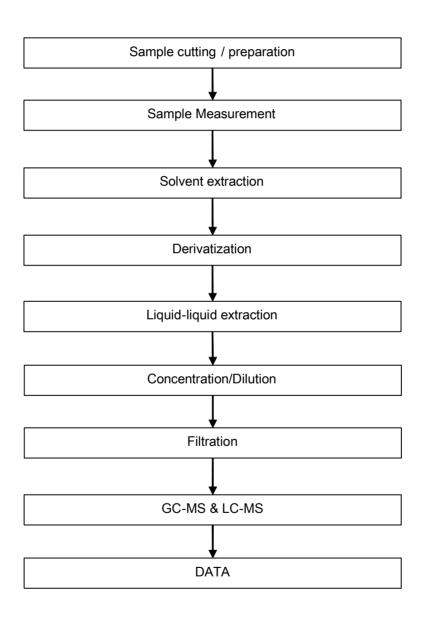


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TBBP-A Testing Flow Chart





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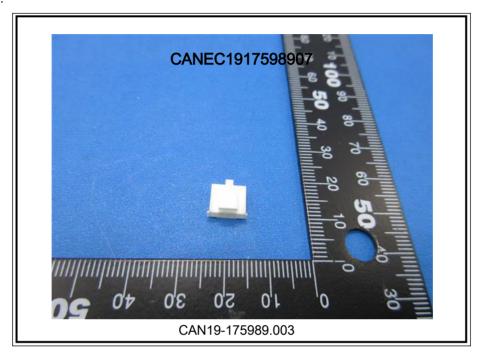


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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC1823638801 Date: 14 Nov 2018 Page 1 of 8

SHENGLAN TECHNOLOGY CO.,LTD

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

This report is to supersede test report CANEC1822941204

The following sample(s) was/were submitted and identified on behalf of the clients as: Phosphor copper nickel plated tin terminal pin

SGS Job No.: CP18-061410 - SZ

Model No.: 11255

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 06 Nov 2018

Testing Period: 06 Nov 2018 - 09 Nov 2018

Selected test(s) as requested by client. Test Requested:

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo Yeung

Approved Signatory

Echo Yeung



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Test Report No. CANEC1823638801 Date: 14 Nov 2018 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN18-236388.002 SN₁ Silvery plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	12
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis



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Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method

3050B:1996), analysis was performed by ICP-OES.

 Test Item(s)
 Unit
 MDL
 002

 Beryllium (Be)
 mg/kg
 5
 ND

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	μg/m²	1.0	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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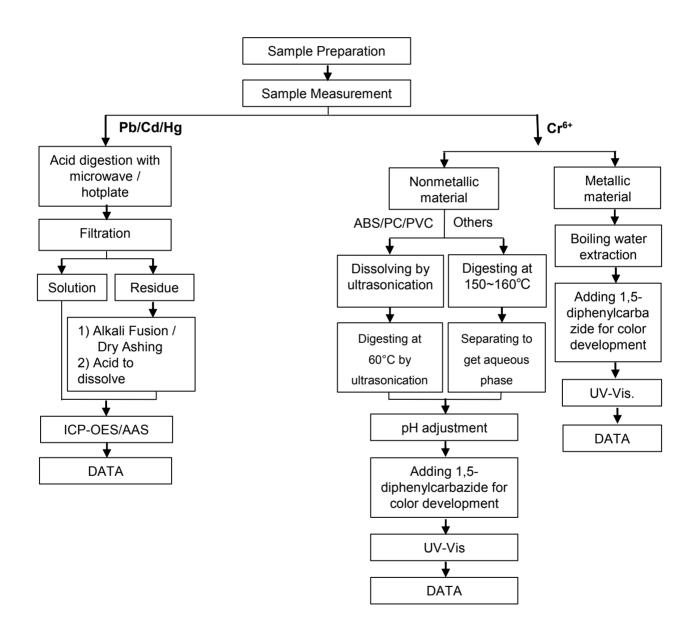
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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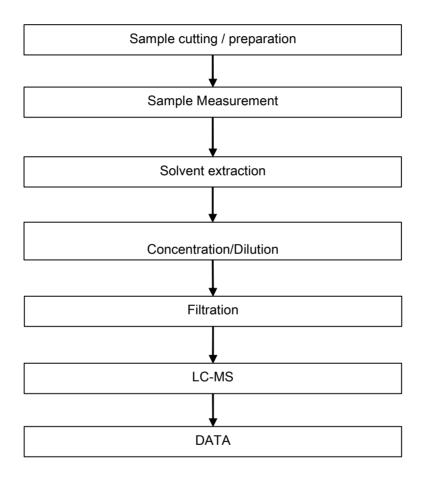
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PFOA / PFOS Testing Flow Chart





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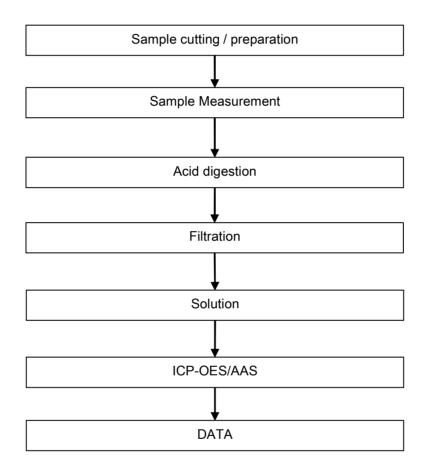
No. CANEC1823638801

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Elementary Testing Flow Chart





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REMARK:

10001、	10500、	10800、	11001、	11002、	11003、	11004、	11005、	11006、	11007、	11008、
11201、	11202、	11203、	11250、	11251、	11252、	11253、	11254、	11255、	11256、	11257、
11258、	11259、	11270、	11500、	11501、	11502、	11503、	11508、	11800、	11801、	12001、
12002、	12003、	12004、	12005、	12006、	12007、	12008、	12009、	12010、	12011、	12012、
12013、	12014、	12015、	12016、	12017、	12018、	12501、	12502、	12503、	12504、	12505、
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12549、	13402、	13502、	13601、	13961、	13962、	13963、	14000、	15001、	15002、	15080、
17921、	20501、	20502、	20503、	20602、	20800、	20803、	21001、	21251、	21501、	21611、
21811、	21813、	21814、	21816、	21817、	21818、	21819、	22001、	22501、	32001、	33001、
33002、	34201、	34202、	34502、	35081、	35082、	36201、	36202、	40301、	40302、	40303、
40305、	40306、	40501、	40502、	40503、	40504、	40505、	40506、	40507、	40508、	40513、
40536、	40559、	40561、	40562、	41001、	41002、	41003、	41004、	41005、	41019、	41040、
41043、	41251、	42003、	50001、	50003、	50501、	50601、	50602、	50801、	50802、	51001、
51050、	51271、	51272、	51274、	51275、	51276、	51277、	51278、	51279、	51280、	52001、
52002、	52003、	52004、	52041、	52042、	52501、	52502、	52503、	52504、	54003、	55001、
60000、	60001、	60100、	61001、	61002、	61003、	61004、	61005、	61006、	61007、	61008、
61009、	61010、	61013、	61100、	61270、	62001、	62291、	62771、	62772、	63100、	64001、



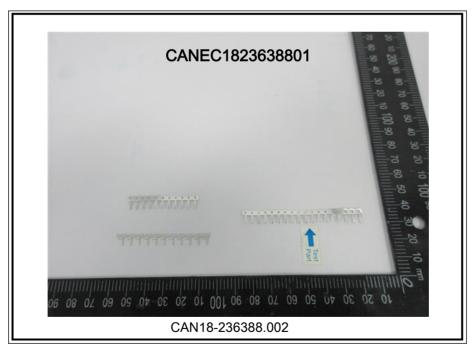
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64100、65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、 70500、72001、70600、70801、70901、71008、71101、72007、72008、72010、81290、 LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、TNDA3、JTHA8、 SAF85、UAHA2、TNA11、TNDA3、RJCA9、RJHA6、DSB11、MCB11、UAB11、WFB11、 WTB11、RJB11、HDB11、HDB12、HDB13、UCB11、UBB1B、UBB11、UAB16、UADB8、 JAB11、YB、TP、MCMBE1、UMB1B、RJMAE2、BUA0CB、BUA0CB、UCMAJ1、BS0130、 RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1、TNTAE1、UCMAJ1、TNTBT3、9001、9002、5000102、BT035210、THREE IN ONE、 FOUR IN ONE, USB, HDMI, RJ, 0308, XSBO, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO、OEM、TNAOPO、SCA、TUAOPH、SUASO2、AWDANW、AWDCIW、AWDATB、 AHFANB、TNTBC1、TNB12、TNKBG1/2/3/4、UBB14、US90、HE103A、BCO、WUSF5526、 UBDU2、UBMBS1/2、BB0、BPO

Sample photo:



SGS authenticate the photo on original report only

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HungYuanShuo Electronic Accessories CO.,LTD

产品规格承认书

版本: A/1

产品名称	H无卤环保热缩套管	供应商代码	
规格/型号	所有系列	客户编号	

供應商確認(弘源碩電子材料有限公司)

拟制/日期	审核/日期
范松林 / 2012年1月15日	宋大春 / 2012年1月15日

客戶確認

客户批准/日期	

公司地址:深圳市寶安區沙井街道辦中心路匯盈商務大廈十三樓1301,1302室

邮 编: 518104

电 话: 0755-29308589

传 真: 0755-29308085

网 址: www.lyc-hys.com

1 主题内容与适用范围

本承认书规定了无卤环保阻燃型热收缩套管的技术要求、试验方法、检验规则以及包装等内容。本承认书适用于电线连接、焊点保护、电线端部处理、线束及电子元器件的防护和绝缘处理、健身器材零部件和钢结构表面防护、相关产品的防锈和防腐处理、电线和其它产品的标识等用途的无卤阻燃型热收缩套管。

2 引用标准

Standard for Extruded Electrical Tubing UL 224.

3 术语

3. 1热收缩材料

以可塑性线型高聚物或高聚物合金为基材,用高能辐照方法或化学方法使聚合物分子链部分交 联成为网状结构获得弹性"记忆效应",经加热扩张至特定尺寸后冷却定型,使用时加热到适当温 度后自行收缩到扩张前的形状和尺寸,这种材料称为热收缩材料。

3. 2热收缩套管

将上述高聚物或高聚物合金通过挤出成型得到规定尺寸的管状中间产品,辐照(或化学)交联 后加热扩张,冷却定型得到的具有一定尺寸的管状产品成为热收缩套管。

3. 3 绿色 RSFR 无卤阻燃热收缩材料

在热收缩材料中添加一定量的不含卤素、重金属等对环境有害的阻燃剂,使之符合一定阻燃要求和环保要求,则成为绿色 RSFR 无卤阻燃热收缩材料。

4 技术要求

- 4. 1 使用条件
- 4. 1. 1 连续使用的环境温度: -55℃~125℃。
- 4. 1. 2 可在酸、碱条件下长期使用。
- 4.1.3 可在环保要求严格的条件下长期使用。
- 4. 2 表观要求
- 4. 2. 1 制品表面无明显划伤、凹凸不平、竹节状缺陷。
- 4. 2. 2 表面光洁、无油污、无积尘。
- 4. 2. 3 印字清晰、无重影、无多余墨迹、无印不全或打滑现象。
- 4. 3 热收缩性能
- 4. 3. 1 起始收缩温度 70 °C ; 超薄型完全收缩温度 110 °C ,普通型完全收缩温度 125 °C 。 按照 UL224 标准,完全收缩到位温度为 200 °C , 3 分钟 。
- 4. 3. 2 纵向收缩率不超过±5%
- 4. 4 材料的性能特性

材料的理化性能符合表1规定。

4. 5 收缩套管的产品尺寸

无卤阻燃型薄壁热收缩套管的产品尺寸符合表 2 规定,无卤阻燃型热收缩套管的产品尺寸符合表 3 规定。

4. 6 颜色

标准颜色:黑色、红色、蓝色、黄色、绿色、白色,其它颜色如紫色、灰色、棕色等可根据客户要求 定做。

4.7 使用方法

在使用过程中,为了保证热缩套管能完全收缩到位,使用强制鼓风式恒温烘箱,并将收缩温度 控制在125℃。特别注意,当把热缩套管放入烘箱过程中,烘箱温度有一下降趋势,要达到设定温度 需要一定的时间;同时,在烘箱内通过热空气循环流动使热缩套管达到最终收缩温度同样需要一定

的时间。因此,必须在烘箱实际温度达到设定温度并保持该温度3分钟左右,热缩套管才能完全收缩到位。

表 1 无卤阻燃型热收缩套管的性能特性

	Lat. All		MHAS IS NOT	Int. Ala Ha I	
	性創		测试方法	性能指标	
物理性能	拉伸强度/MPa		GB/T1040	≥10.4	
	断	裂伸长率/%	GB/T1040	≥200	
	热老化	后拉伸强度/MPa	UL224; 158℃×168hr	≥7.3	
	热老化后断裂伸长率/%		UL224; 158℃×168hr	≥100	
	耐热冲击		UL224; 250°C×4hr	不发粘,不龟裂	
		抗冷弯曲	UL224; -30℃×1hr	不龟裂	
电气性能	耐压	300V	UL224	2500V 不击穿	
		600V	UL224	2500V 不击穿	
	击穿强度/KV/mm GB/T1408		GB/T1408	≥15	
	体积	R电阻率/Ω•cm	GB/T1410	\geqslant 1×10 ¹⁴	
化学性能		铜安定性	UL224; 158℃×168hr	PASS	
	抗腐蚀性		UL224; 158℃×168hr	PASS	
		阻燃性	UL224	VW-1	

表 2 H-CB 管 (无卤阻燃型薄壁热收缩套管)的产品尺寸

规格	收缩前尺	寸 (mm)	收缩后月	尺寸 (mm)	旧包装	新包裝	适用范围
(mm)	内径	壁厚	内径	壁厚	米/盘	米/盘	(mm)
Ф 0. 6СВ	0.90 ± 0.2	0.13 ± 0.05	≤ 0. 40	0.20 ± 0.10	200	400	$0.4 \sim 0.7$
Ф 0. 8СВ	1.10 ± 0.2	0.13 ± 0.05	≤ 0.50	0.20 ± 0.10	200	400	0.6~0.8
Ф1.0СВ	1.40 ± 0.2	0.13 ± 0.05	≤ 0.65	0.20 ± 0.10	200	400	0.7~1.0
Ф1.5СВ	1.90 ± 0.2	0.13 ± 0.05	≤ 0.85	0.20 ± 0.10	200	400	$0.9 \sim 1.4$
Ф2.0СВ	2.40 ± 0.2	0.13 ± 0.05	≤1.00	0.22 ± 0.10	200	400	$1.1 \sim 1.8$
Ф2.5СВ	2.90 ± 0.2	0.13 ± 0.05	≤1.30	0.25 ± 0.10	200	400	1.4~2.3
Ф3.0СВ	3.40 ± 0.2	0.13 ± 0.05	≤ 1.50	0.28 ± 0.10	200	400	$1.6 \sim 2.7$
Ф 3. 5СВ	3.90 ± 0.2	0.13 ± 0.05	≤1.80	0.28 ± 0.10	200	400	$1.9 \sim 3.2$
Ф 4. ОСВ	4.40 ± 0.2	0.15 ± 0.05	≤ 2.00	0.30 ± 0.10	200	400	$2.1 \sim 3.6$
Ф4.5СВ	4.90 ± 0.2	0.15 ± 0.05	≤ 2. 30	0.30 ± 0.10	100	200	2.4~4.0
Ф 5. ОСВ	5.50 ± 0.2	0.15 ± 0.05	≤ 2.5	0.32 ± 0.10	100	200	$2.6 \sim 4.5$
Ф 6. ОСВ	6.50 ± 0.2	0.15 ± 0.05	≤ 3. 0	0.32 ± 0.10	100	200	3.1~5.4
Ф 7СВ	7.50 \pm 0.3	0.15 ± 0.05	≤ 3.5	0.32 ± 0.10	200	200	3.7~6.3
Ф8СВ	8.50 ± 0.3	0.15 ± 0.05	≤ 4. 0	0.32 ± 0.10	200	200	4.2~7.2
Ф 9СВ	9.50 ± 0.3	0.15 ± 0.05	≤ 4. 5	0.35 ± 0.10	200	200	4.7~8.0
Ф 10СВ	10.5 \pm 0.3	0.15 ± 0.05	≤ 5. 0	0.35 ± 0.10	200	200	5.2~9.0

Ф11СВ	11.5±0.3	0.18 ± 0.05	≤ 5. 5	0.40 ± 0.10	200	200	5.7~10.0
Ф 12СВ	12.5 ± 0.3	0.20 ± 0.05	≤6. 0	0.40 ± 0.10	200	200	6.2~11.0
Ф13СВ	13.5 ± 0.3	0.20 ± 0.05	≤ 6. 5	0.40 ± 0.10	200	200	6.7~12.0
Ф 14СВ	14.5 ± 0.3	0.20 ± 0.05	≤ 7. 0	0.40 ± 0.10	200	200	7.3~13.0
Ф 15СВ	15.5 \pm 0.4	0.20 ± 0.05	≤ 7. 5	0.40 ± 0.10	200	200	7.8~14.0
Ф 16СВ	16.5 ± 0.4	0.22 ± 0.05	≪8.0	0.40 ± 0.10	200	200	8.3~15.8
Ф17СВ	17.5 ± 0.4	0.22 ± 0.05	≪8.5	0.40 ± 0.10	200	200	8.8~16.0
Ф 18СВ	18.5 ± 0.4	0.22 ± 0.05	≤ 9. 0	0.42 ± 0.10	200	200	9.3~17.0
Ф 20СВ	20.5 ± 0.5	0.25 ± 0.05	≤ 10.0	0.45 ± 0.10	200	200	10.5~19.0
Ф 22СВ	22.5 ± 0.5	0.25 ± 0.05	≤11.0	0.45 ± 0.10	200	200	$11.5\sim20.5$
Ф 25СВ	25.5 ± 0.5	0.25 ± 0.05	≤ 12. 5	0.45 ± 0.10	100	100	13.0~24.0

E203950 **(Σ)** WOER RSFR(CB) TUBE 125°C VW-1 H (Φ 9CB)

表3 H管(无卤阻燃型热收缩套管)的产品尺寸要求

规格	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
(mm)	 内径	壁厚	最大内径	壁厚	米/盘	米/盘	
Ф0.6	0.9 ± 0.2	至序 0.18±0.05	取入内在 ≤0.40	<u> </u>	200	400	$\frac{\text{(mm)}}{0.4 \sim 0.7}$
Ф0.8	1.1 ± 0.2	0.18 ± 0.05	≤0.50	0.33 ± 0.10	200	400	0.6~0.8
Ф1.0	1.5 ± 0.2	0.20 ± 0.05	≤0.65	0.36 ± 0.10	200	400	0.75~0.9
Ф1.5	2.0 ± 0.2	0.20 ± 0.05	≤0.85	0.36 ± 0.10	200	400	0.95~1.4
Ф2.0	2.5 ± 0.2	0.20 ± 0.05	≤1.00	0.45 ± 0.10	200	400	1.1~1.8
Ф2.5	3.0 ± 0.2	0.20 ± 0.05	≤1.30	0.45 ± 0.10	200	400	1.35~2.3
Ф3.0	3.5 ± 0.2	0.23 ± 0.05	≤1.50	0.45 ± 0.10	200	400	1.6~2.7
Ф3.5	4.0 ± 0.2	0.23 ± 0.05	≤1.80	0.45 ± 0.10	200	400	1.85~3.2
Ф4.0	4.5 ± 0.2	0.25 ± 0.05	€2.00	0.45 ± 0.10	200	400	2.1~3.6
Ф4.5	5.0 ± 0.2	0.28 ± 0.05	€2.30	0.56 ± 0.10	100	200	2.35~4.0
Ф5.0	5.5 ± 0.2	0.28 ± 0.05	≤2.50	0.56 ± 0.10	100	200	2.6~4.5
Ф6.0	6.5 \pm 0.2	0.28 ± 0.05	≤3.00	0.56 ± 0.10	100	200	3.1~5.4
Ф7.0	7.5 ± 0.3	0.30 ± 0.05	≤3.50	0.56 ± 0.10	100	100	3.7~6.3
Ф8.0	8.5 ± 0.3	0.30 ± 0.08	≤ 4.00	0.56 ± 0.10	100	100	4.2~7.2
Ф9.0	9.5 ± 0.3	0.30 ± 0.08	≤ 4. 50	0.56 ± 0.10	100	100	4.7~8.0
Ф10	10.5 \pm 0.3	0.30 ± 0.08	≤ 5. 00	0.56 ± 0.10	100	100	5. 2~9. 0
Ф11	11.5 \pm 0.3	0.30 ± 0.08	≤ 5. 50	0.56 ± 0.10	100	100	5.7~10
Ф12	12.5 \pm 0.3	0.30 ± 0.08	≤6.00	0.56 ± 0.10	100	100	6.2~11
Ф13	13.5 ± 0.3	0.35 ± 0.08	≤ 6. 50	0.56 ± 0.10	100	100	6.7~12
Ф14	14.5 ± 0.3	0.35 ± 0.10	€7.00	0.70 ± 0.10	100	100	7.3~13
Ф15	15. 5 ± 0.4	0.35 ± 0.10	≤ 7. 50	0.70 ± 0.10	100	100	7.8~14

规格 (mm)	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
Ф16	16.5 \pm 0.4	0.35 ± 0.10	≤8.00	0.70 ± 0.10	100	100	8.3~15
Ф17	17.5 ± 0.4	0.35 ± 0.10	≤8.50	0.70 ± 0.10	100	100	8.8~16
Ф18	19.0 ± 0.5	0.35 ± 0.10	≤9.00	0.70 ± 0.10	100	100	9.3~17
Ф20	22.0 ± 0.5	0.40 ± 0.10	≤10.00	0.83 ± 0.10	100	100	10.4~19
Ф22	24.0 ± 0.5	0.40 ± 0.12	≤11.00	0.83 ± 0.15	100	100	11.4~21
Ф25	26.0 ± 0.5	0.45 ± 0.12	≤12.50	0.90 ± 0.15	50	50	12.8~24
Ф28	29.0 ± 0.5	0.45 ± 0.12	≤14.00	0.90 ± 0.15	50	50	14.4~29
Ф30	31.5 ± 1.0	0.45 ± 0.12	≤15.00	1.00 ± 0.15	50	50	16~29
Ф35	36.5 ± 1.0	0.45 ± 0.12	≤ 17. 50	1.00 ± 0.15	50	50	18~34
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤ 20. 00	1.00 ± 0.15	50	50	21~39
Ф 45	46.5 ± 1.0	0.50 ± 0.15	≤22.50	1.00 ± 0.20	25	25	23.5~44
Ф 50	≥50	0.50 ± 0.15	≤ 25. 00	1.10 ± 0.20	25	25	26~49

E203950 WOER RSFR-H TUBE 125°C VW-1 H (φ9)

注: Φ30 及以上规格产品默认为 G 管(环保性能符合欧盟 RoHS 2002/95/EC 标准)。如果客户需 H 无卤热缩套管,须在订单上注明。

4.8 环境物质

本承认书承诺不使用以下物质,四大重金属、多溴联苯(PBB)、多溴联苯醚(PBDE)、卤素等通过 SGS 检测。无卤阻燃型热收缩套管的环保特性列于表 4。

- 1. 多氯化联苯(PCB)类
- 2. 多氯化萘 (PCN) 类
- 3. 氯化石蜡
- 4. 灭蚁灵 (Mirex)
- 5. 其它有机氯化合物
- 6. 有机溴化合物-多溴联苯 (PBB)
- 7. 有机溴化合物-多溴联苯醚 (PBDE)
- 8. 有机锡化合物(三丁基锡化合物和三苯基锡化合物)
- 9. 石棉
- 10. 偶氮化合物
- 11. 甲醛

表 4 无卤阻燃型热收缩套管的环保特性

环境物质	含量	测试方法
氟 (F)	≤200PPM	EN 14582 Method B
氯 (C1)	≤900ppm	EN 14582 Method B
溴 (Br)	≤900ppm	EN 14582 Method B
碘 (I)	≤200PPM	EN 14582 Method B

镉 (Cd)	≤5ppm	IEC 62321
铅 (Pb)	≤90ppm	IEC 62321
铬 (Cr ⁶⁺)	≤5ppm	IEC 62321
汞 (Hg)	≤5ppm	IEC 62321
砷 (As)	≤50ppm	EPA 3052
钡 (Ba)	≤1000ppm	EPA 3052
锑(Sb)	≤60ppm	EPA 3052
硒 (Se)	≤25ppm	EPA 3052

备注: 氯(C1) + 溴(Br) <1500ppm

5. 材质证明书

材质证明书

沃尔核材股份有限公司无卤环保型 RSFR-H 热缩套管是一种阻燃型的热收缩套管,组成材料为聚烯烃加适量阻燃剂和助剂。产品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr⁶⁺)、多溴联苯(PBB)、多溴联苯醚(PBDE)等环境物质含量符合日本 SONY-SS-00259 和欧盟 RoHS 2002/95/EC 指令环保要求。其主要成份如下:

原料名称			使用目的	含量	供应商	CAS. NO.
中文	英文	分子式				
聚烯烃	Polyolefin	(CH ₂ CH ₂) n	主剂	50%	北京有机	9002-88-4
氢氧化镁	Magnesium	$Mg(OH)_2$	阻燃剂	35%	锦昊辉	1309-42-8
	Hydroxide					
磷系阻燃剂	Phosphorus	(NH_4PO_3) n	阻燃剂	10%	上海海以	7723-14-0
色母粒	Pigment	色母+填充剂	着色剂	5%	华万彩	
油墨	Printing Ink		印字		上海捷信	

6. 技术资料

- (1) UL/cUL 证书
- (2) ISO9001 证书
- (3) IS014001 证书
- (4) ISO/TS16949 证书
- (5) SGS/ITS/CTI 检测报告

弘源碩電子材料有限公司

二零一二年一月十五日



ONLINE CERTIFICATIONS DIRECTORY

YDPU2.E203950 Tubing, Extruded Insulating - Component

Page Bottom

Tubing, Extruded Insulating - Component

See General Information for Tubing, Extruded Insulating - Component

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD

E203950

XINWEI INDUSTRIAL PARK, WOER MANSION NANSHAN DISTRICT, XILI SHENZHEN, GUANGDONG 518052 CHINA

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance C	VW-1 Rated #	
Flexible Heat-Shrinkable Polyolefin Tubing						
RSFR	600	125	All except Clear	None	\$	
WKZM-x-yz	600	125	White	None	No	
RSFR-H	600	125	All except Clear	None	Yes	
RSFR(CB)	300	125	All except Clear	None	Yes	
Not Heat-Shrinkable PTFE Tubing						
WF	600	200	Natural	None	Yes	
Heat-Shrinkable Polyolefin Tubing with Meltable Liner						
SBRS	600	125	All except Clear	None	Yes	
Not Heat-Shrinkable Standard Wall Silicone Tubing						
WST-600	600	150	White	None	@	

- x-yz x represents tubing expanded ID, yz represents any alpha and/or numeric combination for internal client code.
- # Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.
- @ VW-1 rated for internal diameter sizes 6.50 15.00 mm only.
- \$ VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container.

Last Updated on 2008-04-30

Questions?

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Test Report (SVHC)

No. CANEC1822723201

Date: 09 Nov 2018

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SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD. WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG

DISTRICT, SHENZHEN

CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PLEASE SEE REMARK

CP18-059386 - SZ SGS Job No.:

Date of Sample Received: 02 Nov 2018

Testing Period: 02 Nov 2018 - 08 Nov 2018

Test Requested: As requested by client, SVHC screening is performed according to:

> (i) One hundred and ninety one (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

on Sep 4, 2018 regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description**

CAN18-227232.001 SN₁ Black tube w/whtie printing

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9./ = Substances in the Consultation List of SVHC.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
٧	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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No. CANEC1822723201

Date: 09 Nov 2018

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
1	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
1	193	Benzo[k]fluoranthene	207-08-9	0.050
1	194	Fluoranthene	206-44-0	0.050
1	195	Phenanthrene	85-01-8	0.050
1	196	Pyrene	129-00-0	0.050
/	197	Undecafluorohexanoic acid and its ammonium salt	307-24-4, 21615-47-4	0.050



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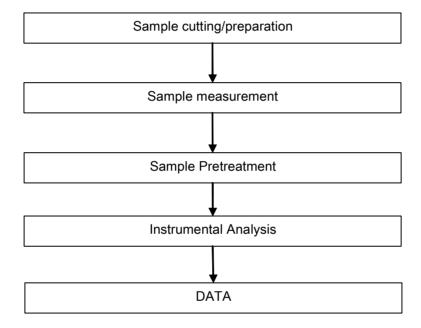
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ATTACHMENTS

SVHC Testing Flow Chart





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Date: 09 Nov 2018

REMARK:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 , W WOER RSFR-H TUBE 125°C VW-1 H)



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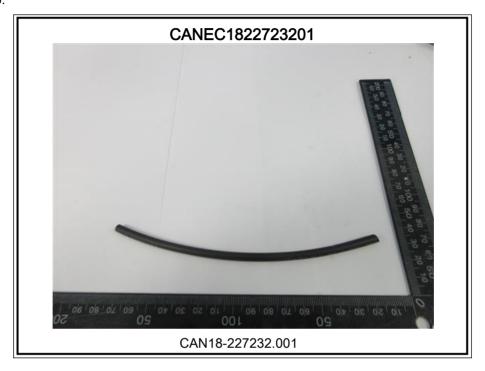
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Date: 09 Nov 2018 Page 19 of 19

Sample photo:



SGS authenticate the photo on original report only

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Report No. A2190096126101003R1

Applicant SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Address WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREER, PINGSHAN

DISTRICT, SHENZHEN, GUANGDONG.

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PE masterbatch- Black

Sample Received Date Apr. 26, 2019

Testing Period Apr. 26, 2019 to Apr. 29, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

> Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Crit Qin

Hill Zheng

Pori Xia

Date

Reviewed by

May 17, 2019

No. R179757340

Technical Manager

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190096126101003R1

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Report No. A2190096126101003R1 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	36 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190096126101003R1

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Test Result(s)

Tested Item(s)	Result	MDL				
Phthalates (DBP, BBP, DEHP, DIBP)						
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg				
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg				
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg				
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg				

Sample/Part Description

Black plastic grains

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note:

This testing report revised "Sample Name" based on the original report of No. A2190096126101003. This testing report displaces the original one which was invalid since the date of this testing report released.

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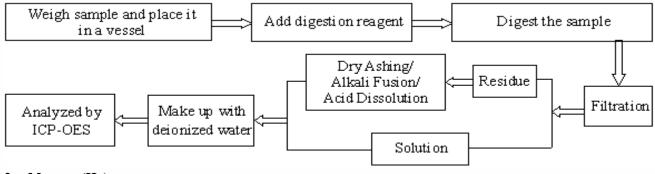


Report No. A2190096126101003R1

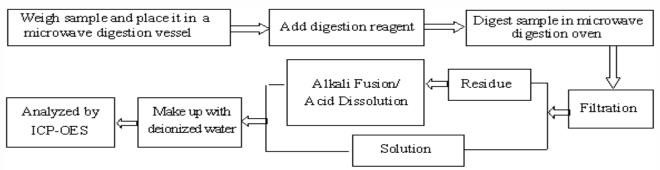
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



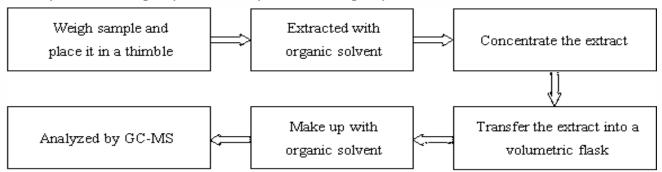
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



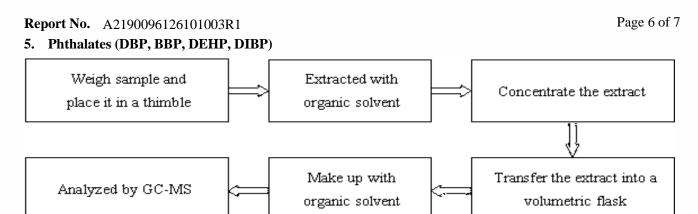
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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Report No. A2190096126101003R1

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Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Test Report No. CANEC1911780603 Date: 26 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: HALOGEN FREE

WHITE INK

SGS Job No.: CP19-032627 - SZ

Model No.: I-TPE-01

Client Ref. Info.: I-PE-01; I-TPE-01;I-TPR-01;I-PE-01; I-PPE-01;I-PP-01;I-TPU-01;I-RU-01

Date of Sample Received: 19 Jun 2019

Testing Period: 19 Jun 2019 - 26 Jun 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 26 Jun 2019 No. CANEC1911780603 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-117806.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19117806	0603 Date: 26 Jun 2019		Page 3 of 6	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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Remark: The result(s) shown is/are of the total weight of dried sample.



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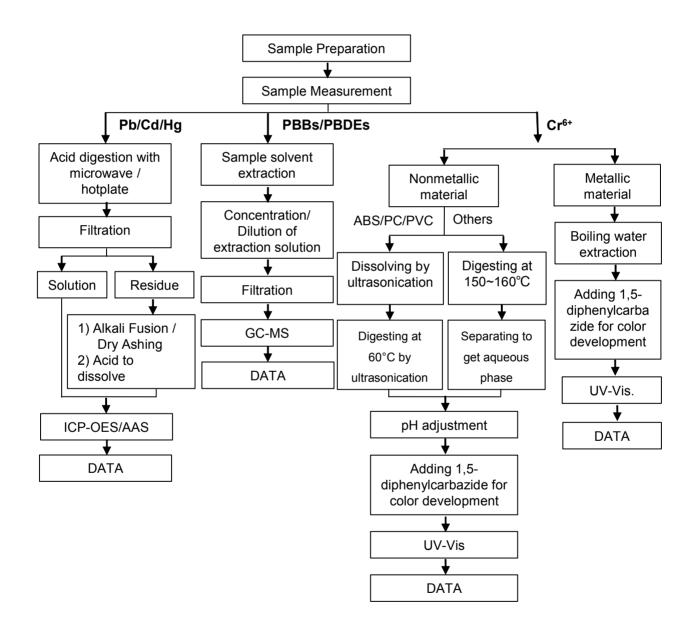
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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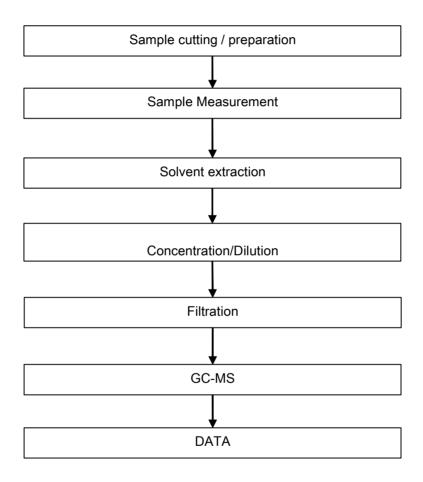
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Phthalates Testing Flow Chart





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Date: 26 Jun 2019

Sample photo:



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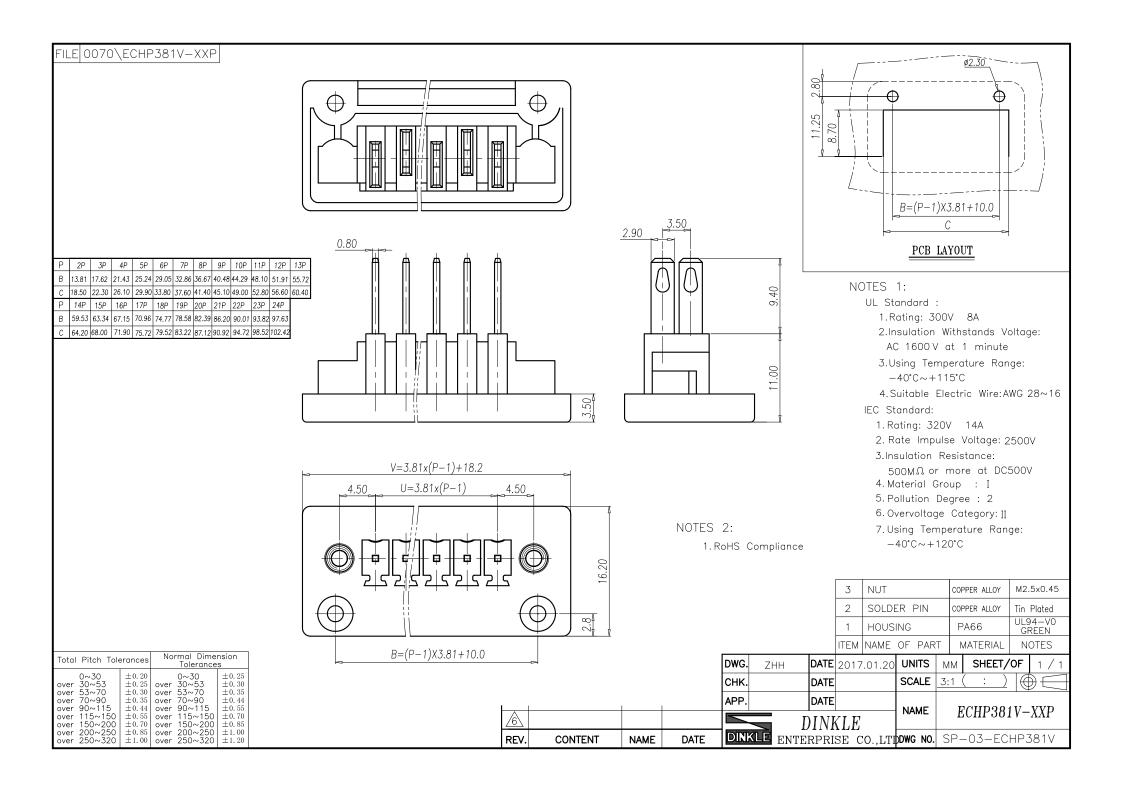
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Test Report No. SHAEC1919684903 Date: 05 Sep 2019 Page 1 of 11

DINKLE ELECTRIC MACHINERY (CHINA) CO.,LTD

NO.258, XINGPU MID ROAD, SHIPU BUSINESS ADMINISTRATION ESTATE, QIANDENG TOWN, KUNSHAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: PA66 DP A30SFN30+DUS025 (GREEN)

SGS Job No.: SP19-030244 - SH

Supplier: **LANXESS** Date of Sample Received: 03 Sep 2019

Testing Period: 03 Sep 2019 - 05 Sep 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dora Hu

Approved Signatory



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Test Report Date: 05 Sep 2019 Page 2 of 11 No. SHAEC1919684903

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SHA19-196849.002 SN₁ Green plastic grains

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SHAEC1919684	903 Date: 05 Sep 2019		Page 3 of 11	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Red Phosphorus

Test Method: SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Pyrolysis-GC/MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Red Phosphorus	mg/kg	500	ND

Notes:

For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

Hexabromocyclododecane (HBCDD)



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Test Report No. SHAEC1919684903 Date: 05 Sep 2019 Page 4 of 11

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s) Unit **MDL** 002 Hexabromocyclododecane (HBCDD) 10 ND mg/kg



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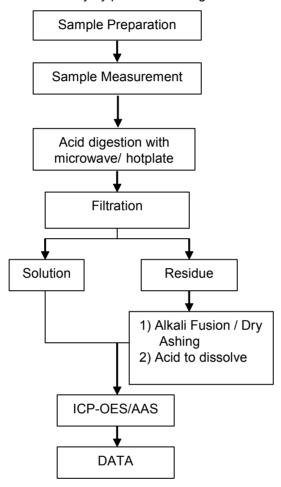
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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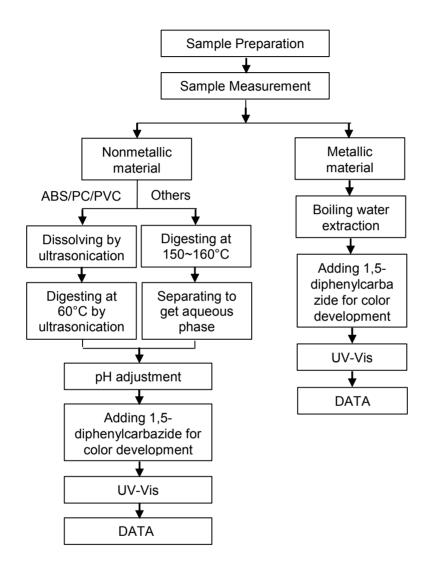
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Date: 05 Sep 2019

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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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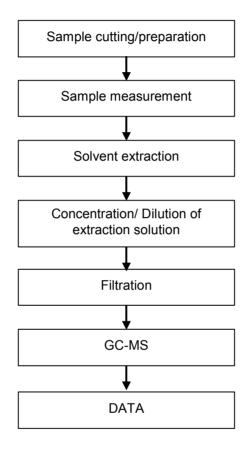


No. SHAEC1919684903

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Date: 05 Sep 2019

PBBs/PBDEs Testing Flow Chart





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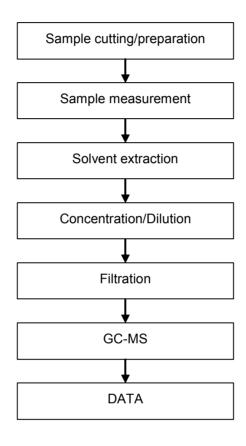


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Date: 05 Sep 2019

Phthalates Testing Flow Chart





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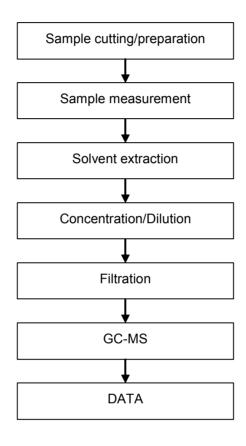


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HBCDD Testing Flow Chart





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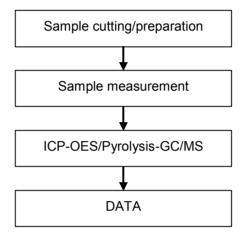


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Red Phosphorus Testing Flow Chart





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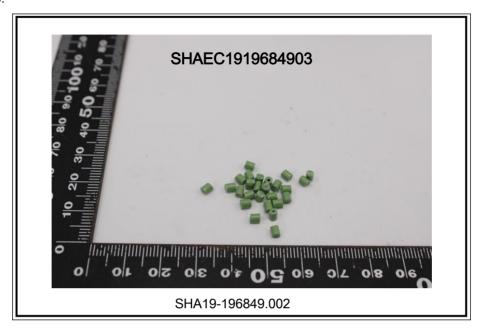


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Date: 05 Sep 2019

Sample photo:



SGS authenticate the photo on original report only

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Report No. A2180247928101002

Applicant DONGGUAN CITY NOIMIA INDUSTRIAL CO., LTD

Address DONGGUAN CHANGAN TOWN MANSION HILLOCK FORTUNA'S UNIVERSAL

INDUSTRIAL CITY ROAD F BUILDING

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name C3604 Part No. C3604

Sample Received Date Dec. 14, 2018

Testing Period Dec. 14, 2018 to Dec. 18, 2018

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl

Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted

sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by Fliv There

Hill Zheng

Technical Manager

Center Resport mediational Group Co., Ltd.

Reviewed by

Date

Pori Xia

Dec. 18, 2018

No. R158921180

CTI Building, No.4, Liuxian 3rd road, Xin'an Street, Bao'an District, Shenzhen, P.R.China



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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	32984 mg/kg	2 mg/kg
Cadmium(Cd)	33 mg/kg	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. ▼	0.10 μg/cm ² (LOQ)
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Sample/Part Description

Golden metal

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \ \mu g/cm^2$
- - $^{\blacktriangledown}$ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.

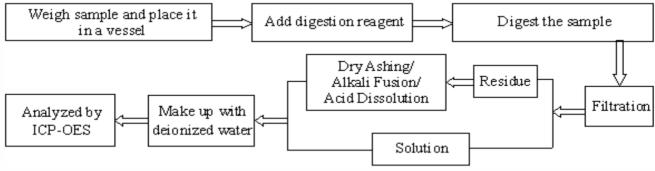
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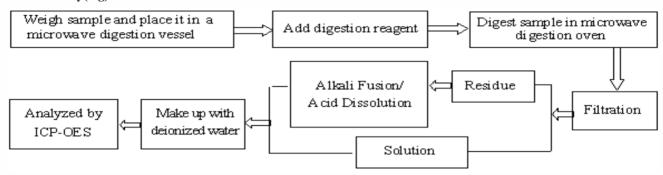
Report No. A2180247928101002 Page 5 of 7

Test Process

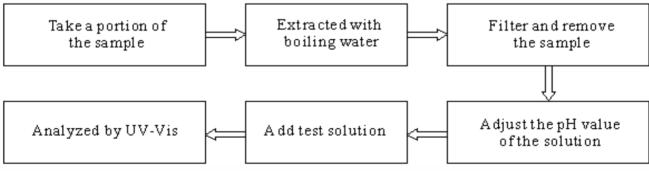
1. Lead(Pb), Cadmium(Cd)



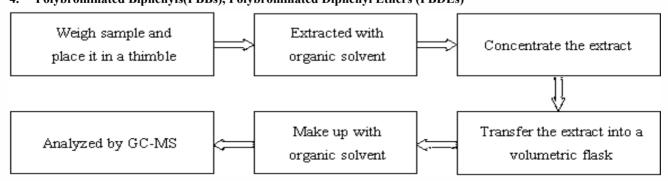
2. Mercury(Hg)



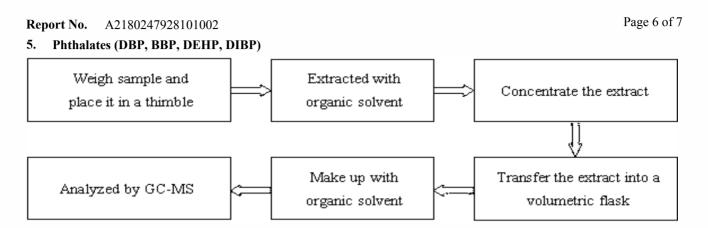
3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)









Report No. A2180247928101002

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Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalidated without approval signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the autenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Test Report No. CANML1906064029 Date: 23 Apr 2019 Page 1 of 12

DONG GUAN SHU PENG METALLIC PRODUCTS CO., LTD
BUILDING A NO.6 DAJIN ROAD,XIXI DAJIN INDUSTRIAL PARK,LIAOBU TOWN,DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: C1100

SGS Job No. : GZIN1904016655PC - GZ

Internal Reference No.: GZIN1904016380ML

Date of Sample Received: 11 Apr 2019

Testing Period: 11 Apr 2019 - 17 Apr 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Annie Ren

Annie Ren Approved Signatory



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No. CANML1906064029

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Date: 23 Apr 2019

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-060640.002 Copper-colored metal sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	3
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANML19060640	029	Date: 2	23 Apr 2019	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.



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Test Report No. CANML1906064029 Date: 23 Apr 2019 Page 4 of 12

Test Item(s) Unit **MDL** 002 Beryllium (Be) mg/kg 5 ND

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	002
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
- iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised



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material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

Date: 23 Apr 2019

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	mg/kg	10	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Remark: Results & photo(s) of this report refer to test report CANML1906064021.



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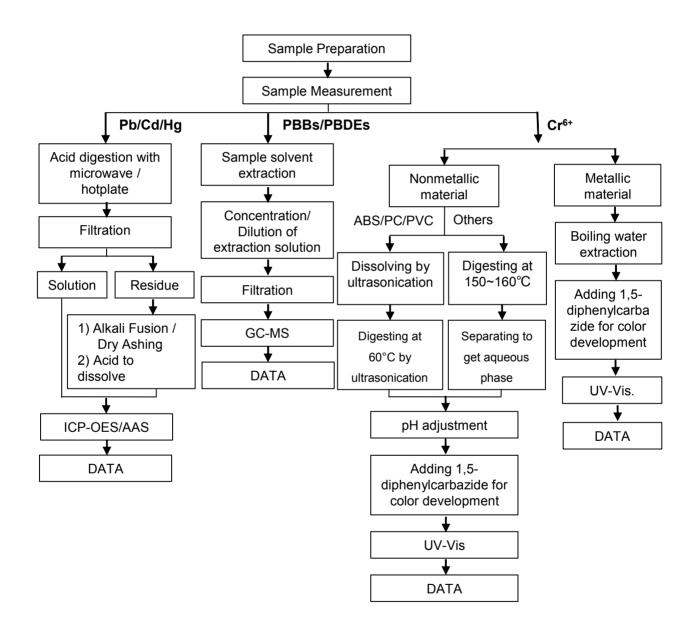
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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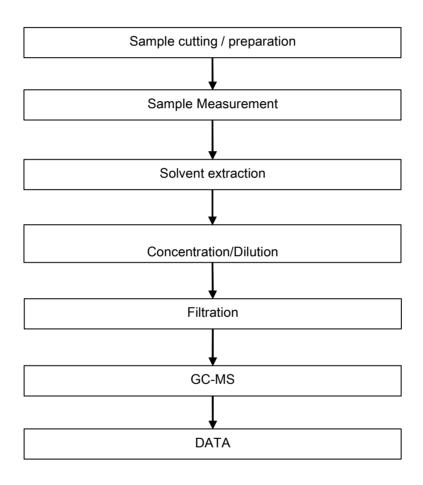
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Phthalates Testing Flow Chart





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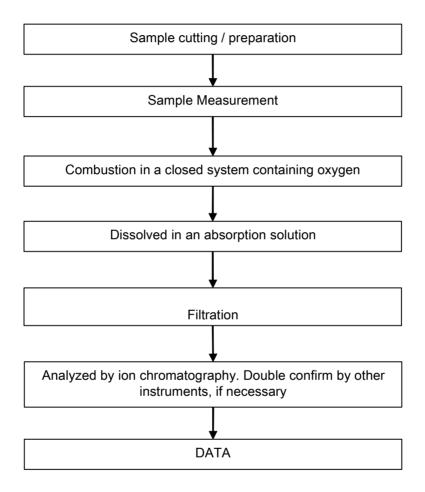
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Halogen Testing Flow Chart





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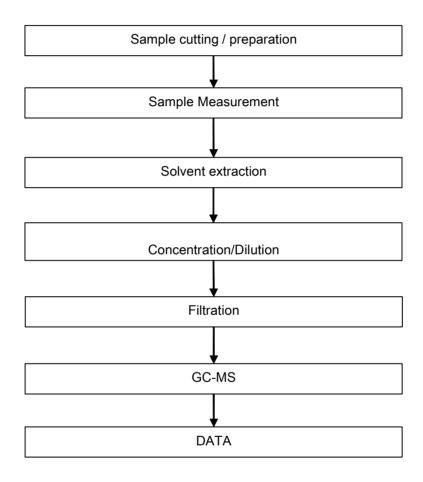
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HBCDD Testing Flow Chart





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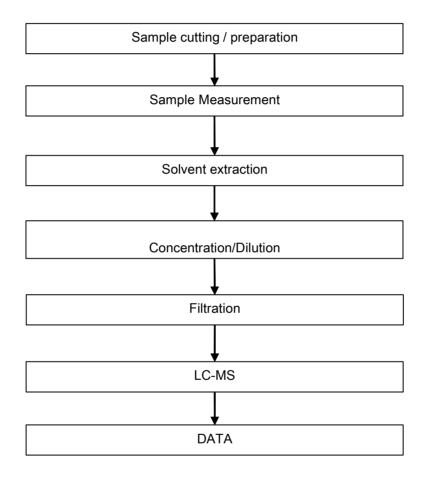
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PFOA / PFOS Testing Flow Chart





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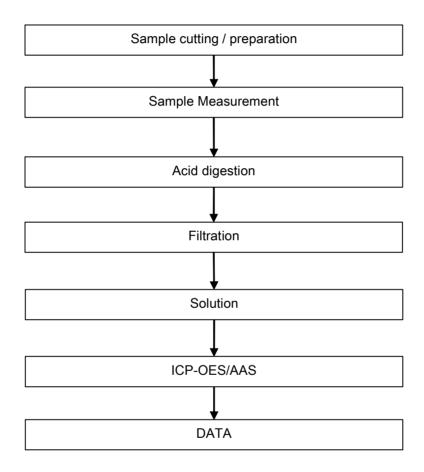
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only *** End of Report ***



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Test Report No. CANML1903212301 Date: 08 Mar 2019 Page 1 of 6

DONGGUAN SHENGJI HARDWARE PRODUCTS CO., LTD
DONGGUAN HUMEN TOWN SHAJIAO COMMUNITY PHOENIX MOUNTAIN INDUSTRIAL ZONE NO. 1

The following sample(s) was/were submitted and identified on behalf of the clients as: Tin PLating

SGS Job No.: SZIN1903002431PC - SZ

Date of Sample Received: 05 Mar 2019

Testing Period: 05 Mar 2019 - 08 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Annie Ren

Annie Ren Approved Signatory



CANMI 190321230



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Test Report No. CANML1903212301 Date: 08 Mar 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-032123.001 Silvery metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANML19032123	801	Date: 0)8 Mar 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	ma/ka	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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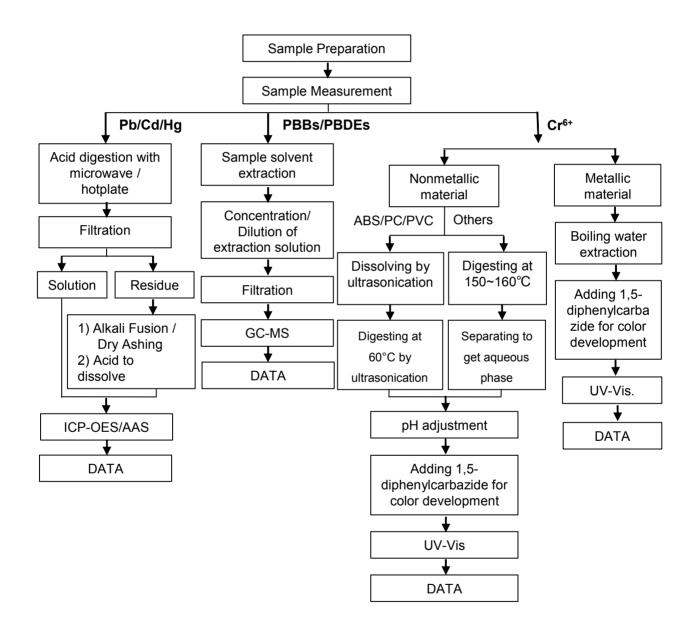
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Date: 08 Mar 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 83071443.



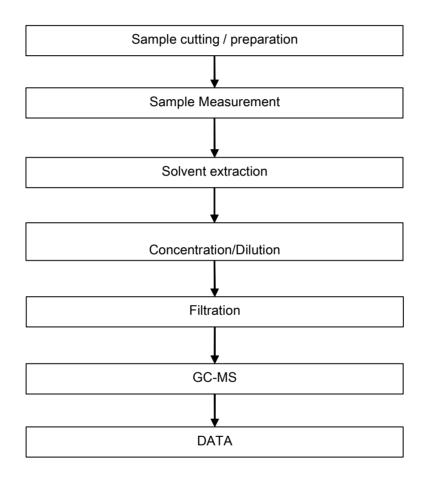
No. CANML1903212301

Page 5 of 6

Date: 08 Mar 2019

ATTACHMENTS

Phthalates Testing Flow Chart





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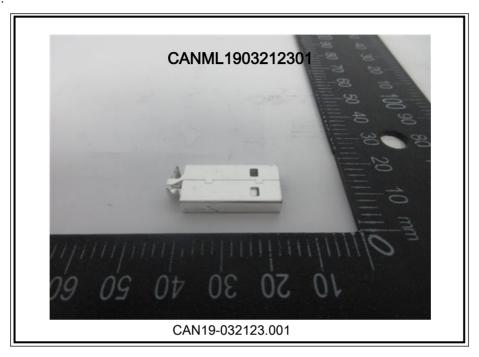


No. CANML1903212301

Page 6 of 6

Date: 08 Mar 2019

Sample photo:



SGS authenticate the photo on original report only





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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 83071443.

不使用限用物質聲明書

Non-use of restricted substances statement



OD4-089 Rev.B2

請填寫相關資訊

Please fill in the relevant information: 公司名稱 Company name: 飛偉科技有限公司 公司負責人 Company Responsible Person: 王俊偉 立書人 Declarant: 王俊偉 立書人職稱 Declarant's Title: 負責人 本聲明書生效日期 Effective Date of this Declaration: 2017/08/03 (公司章 Company Stamp) 請勾選本聲明書適用範圍 Please Select the Scope of this Declaration: 提供給研揚的全部產品 All Products provided to AAEON 一研揚糾號 AAEON Part Number: (負責人章 Responsible Person Chop) 〗原廠料號 Manufacturer Part Number∶ 飛偉科技有限公司 (填寫公司名稱) 響應全球綠色環保法規或其他法律,保證如下事項:

- -、產品符合歐盟 RoHS (2011/65/EU)* 規範。 The product complies with EU RoHS (2011/65/EU) norms.
 - i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863, 將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中,限值仍為 1000ppm,從 2019 年 7 月 22 日起需符合此要 求,作為供應商,如果有包含上述物質,務必主動通知研揚。

(Fill in Company name) Response to global green

environmental protection regulations or other laws, guarantee the following matters:

EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from 22 July 2019 for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

> 管制文件,不可任意複製/更改 Regulatory documents that can not be arbitrarily Copy / Change

不使用限用物質聲明書

AAEON® an /SUS assoc. co.

Non-use of restricted substances statement

OD4-089 Rev.B2

ii. 當作為包材類的材料,也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU) When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)

Note: Pb+Cd+Hg+Cr⁶⁺ <100 ppm

iii. 若為電池零件,也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)

Note: Cd<20ppm; Hg <5ppm

二、產品符合衝突金屬(Conflict Metal)規範,並確認銷售產品若有含錫、鉭、鎢、金這四種礦產,來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin tantalum tungsten gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo Uganda San Tanzania Rwanda Angola, Zambia, Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範,

高關注物質(SVHC),不超過 0.1%上限,以重量計算。

備註:請參照歐盟化學總署(ECHA)網站,最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

Note: Please check ECHA website for latest SVHC list: https://echa.europa.eu/candidate-list-table

立書人提供給研揚的所有文件(含測試報告、聲明書、調查表等文件),均正確屬實並且完整。 All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.

如有違背此保證聲明書的規定,	飛偉科技有限公司	(填寫公司名稱) 將承擔相關法律責任
並賠償研揚所受損害。		
If violates any provision of this D	Declaration,	(Fill in Company name)
shall take legal responsibilities a	and compensate AAE	ON for damages and losses caused by
this violation		

管制文件,不可任意複製/更改 Regulatory documents that can not be arbitrarily Copy / Change

承認書 APPROVAL SHEET

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1218

客戶料號

Cus. P/N: 1703401301

規格敘述

DESCRIPTION: 3.81mm 端子台 CABLE 160mm

審 核	業務	品 保	工程
Approved By	Sales Dept	QA Dept	Engineering Dept
王俊偉	張全生	劉江華	楊仁貴

客戶簽章

Customer Signature:

審 核	核 對	檢 驗
Approved By	Checked By	Tested By

飛偉科技有限公司 FLYINGWAY TECH CO., LTD

Address:新北市永和區中和路345號7F-4

TEL: 02-22311313 FAX: 02-22311020

CONTACT: Chino Wang

E-Mail:chino@flyingwaytech.com.tw

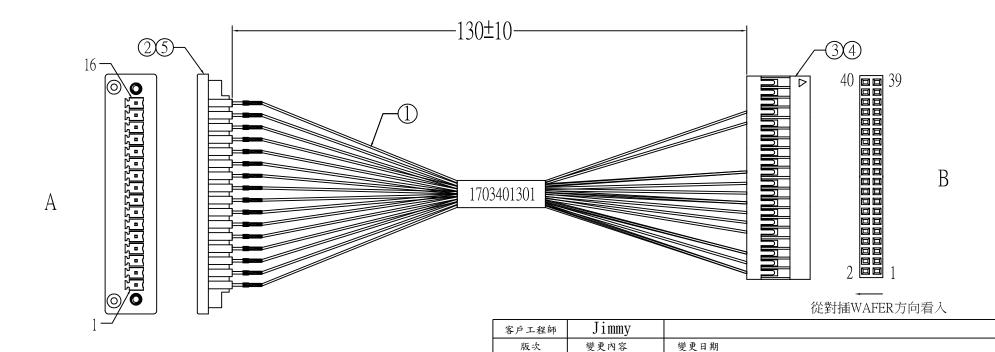
Cellphone: 0983588528

DATE: 2019/10/29

RoHS Compliant

Pin對照表

А	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
В	2	1	4	6	5	10	11	14	16	15	17	20	22	21	31	34
顏色	紅	黄	橙	綠	黑	黑	藍	棕	白	灰	橙	綠	藍	棕	白	灰



5	套管: 厚 黑	16	pcs	WORE或同級品
4	TER:12541T2B-OA-51	16	pcs	JCTC或同級品
3	HSG:12541H00-2*20P	1	pcs	JCTC或同級品
2	端子台:ECHP381-16P	1	pcs	DINKLE或同級品
1	線材:UL1007#26 紅;黃;各1 / 黑;橙;綠;藍;棕;白;灰 各2 L=140*3.0T*3.5	共16	pcs	瑞興或同級品
NO	品 名 規 格	數量	單位	生產廠商

一 律科技有限公 VINCWAV TECH CO I

新發行

TEL:02-2231-1313 FAX:02-2231-1020 E-MAIL:chino@flyingwaytech.com.tw

TITLE:

3.81mm 端子台 CABLE 130mm

2019/04/19

FW P/N: FWAA-1218

CUS. P/N: 1703401301

DWG BY: Silvia CHECKED BY: Chino DATE: 2019/04/19 REV:

7 瑞興電線電纜制品廠 REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承認書 **SPECIFICATION**

品名

STYLE NAME

UL1007 PVC 環保電線

規格

SIZE

80°C

300V

地址:東莞市長安鎮街口增田工業區

ADDRESS: TSENG TEN INDUSTRIAL PARK, CHEN KOU, CHANG AN TOWN.

DONG GUANG CITY, GUANG DONG CHINA

TEL:0769-85315656-9

FAX:0769-85315655,85330656

核准	審核	制定
APPROVED	CHECK	PREPARED
洪央	李荣	蒲國榮

了 UL 1007 HOOK-UP WIRE 80°C 300V PVC 環保電子線

UL Subject 758 CSA Standard

説明:

- ●導體使用單條或絞線 32-16AWG 裸銅或鍍錫銅
- ●環保 PVC 絕緣
- ●額定溫度:80°C,額定電壓:300Volts
- ●可通過 UL VW-1 及 CSA FT1, 垂直型耐燃測試

Product Description:

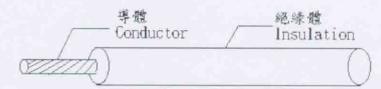
- Tinned annealed stranded or solid copper conductor.
 32-16AWG.
- Lead Free PVC insulation.
- •Rated temperature:80°C.Rated Voltage:300 volts.
- ●Passes UL VW-1 & CSA FT1 vertical flame test. 構造及電氣性能

stucture & electric properties

UL FILE NO:E108485 CSA FILE NO:LL84687

應用:

- ●一般電子,電器設備內部配線 Applications:
- For general purpose internal wiring of electrical.
 and electrical equipment



UL	額	定	ij		絕緣			最大導體	最小絕緣	绝缘耐電	
1007		nge		onductor	Insula		公差值	阻抗	阻抗	壓(VAC/min)	
CSA TR-64	温度 Temp	電 壓 Voltage V	線號 AWG	構 成 NO./mm	厚度 Thickness mm	外徑 O.D mm	Tolerance mm	Maximum Conductor Resistance Ω/km	Minimum Insulation Resistance MΩ/km	Insulation Potential Strength	
			32	7/0.080	0.38	1.00	±0.10	703			
ro.			30	7/0.100	0.38	1.10	±0.10	397			
多 芯 線 STRANDED			28	7/0.127	0.38	1.20	±0.10	248			
多芯			26	7/0.160	0.38	1.30	±0.10	152			
8			24	11/0.160	0.38	1.45	±0.10	88.6			
B線	UL 80°C	UL		22	17/0.160	0.38	1.60	±0.10	62.5		
			20	21/0.180	0.38	1.85	±0.10	39.5			
			18	34/0.180	0.38	2.10	±0.10	24.4			
			16	26/0.254	0.38	2.40	±0.10	15.6			
Ha				3.0	7/0.100	0.38	1.10	±0.10	397		
Top-Coated (ATC)		300V	28	7/0.127	0.38	1.20	±0.10	248.0	15	2000	
ATO Oa Oa			26	7/0.160	0.38	1.30	±0.10	152.0			
ate后			24	7/0.200	0.38	1.45	±0.10	88.6			
金鍍	CC A		22	7/0.254	0.38	1.60	±0.10	62.5			
3月又	CSA		20	7/0.320	0.38	1.85	±0.10	39.5			
50	90°C		28	1/0.320	0.38	1.15	±0.10	326.9			
0] 單			26	1/0,404	0.38	1.25	±0.10	155			
id(24	1/0.511	0.38	1.40	±0.10	92.4			
写 芯 線 Solid(TA)			22	1/0.643	0.38	1.55	±0.10	60.1			
こ線			20	1/0.813	0.38	1.70	±0.10	37.0			
			18	1/1.020	0.38	1.96	±0.10	23.6			

瑞興電線電纜制品廠 REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承 認 書 SPECIFICATION

	型號 STY	LE					UL	1007				CSA TR-64
額定	温度/電壓 RATIN	G TEMI	P./VOLT.				80°C/	300V				90°C/
	線號 SIZE		AWG	30	28	26	24	22	20	18	16	
	芯數 NUME	BER	NO.	7	7	7	11	17	2.1	34	26	
導體	銅線直徑 DIAMETER		MM	0.100	0.127	0.160	0.160	0.160	0.180	0.180	0.254	
CONDUCTOR	最小銅線直徑 MIN.DIAME		MM	0.090	0.116	0.150	0.150	0.150	0.170	0.170	0.240	
DUG	導體截面積	AVG	CVI	100	159	253	404	640	1020	1620	2580	SAME AS UL
CTO	CROSS SEC AREA OF COND	MIN	- CM	98	156	248	392	621	989	1571	2503	
R	絞距 LAY OF BI	UNCH	INCH	0.50	0.50	0.60	0.70	0.80	1.25	2.00	2.00	
	最大電阻 MAX.RESISTA	NCE	Ω/KM	397	248	152	88.6	62.5	39.5	24.4	15.6	
	完成外徑 O.D. (±0.10)	MM	1.10	1.20	1.30	1.45	1.60	1.85	2.10	2.40	
Z	絕緣體厚度	AVG	X ett	15						15		
ATI ATI	INSULATION THICKNESS	MIN	MIL		13							13
MSUL ATION	外被厚度	AVG		T .								f
4	JACKET THICKNESS	MIN	MIL					/				7
	絶緣電阻 LATION ESISTANCE MΩ/KM			15						15		
	t験 SPARK TEST		KV	3 100						5		
曼小伸	長率 ELONGATIO	ON	%							100		
100000000000000000000000000000000000000	張強度 IL STRENGTH		PSI	1500						1500		
長小老	化後伸長率 FTER AGING)		%	OF UNAGED 65						65		
 長小老	化後抗張強度 L(AFTER AGING)		%	OF UNAGED 70						75		
	太験溫度/條件 AGI	NG TEM	IP./TIME			113°0	7/168H	RS				121°C/48HRS
计油部	t驗 OIL LMMERS	100°C/96HRS 50%							7			
耐燃燒試驗 FIAME TEST					VW-1							FTI
5温档	繞試驗 HEAT SH	121℃/ĨHR 1.60MM MANDREL						121 C/1HRS				
川熱變	形試驗 DEFORM	ГЕЅТ	121°C/1HR 250G 50%					113°C/1HR 150G 50%				
氏溫蘊	纏試驗 COLD BE	ND TES	T	-10°C/1HR 3.2MM MANDREL					-15°C/1HR			
计電阻	試驗 INSULATIO	N POTE	NTIALST				2KVA	C/min				2KVAC/min

MARK: ¾ AWM 1007 VW-1 80°C 300V E108485-S ()AWG REI HSING CSA TR-64 90°C LL84687 ()AWG FT1 -F- LF

ISSUED	2000-01-28	APPROVED	CHECKED	PREPARED
REVISION	2006-12-25	沙 夫	李荣	蒲國榮
REVISION	-	诗印	天印	用政木

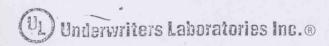
瑞興電線電纜制品廠 REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承 認 書 SPECIFICATION

	型號 STY	LE		UL 1007						CSA TR-64	
額定	溫度/電壓 RATIN	G TEMI	P./VOLT.	80°C/300V						90℃/	
200	線號 SIZE		AWG	28	26	24	22	20	18		
導體	芯數 NUMB	BER	NO.	Ī	1	1	1	1	1		
CO	銅線直徑 DIAMETER		MM	0.320	0.404	0.511	0.643	0.813	1.020	CANAL ACIT	
CONDUCTOR	最小銅線直徑 MIN.DIAMETER		MM	0.300	0.380	0.490	0.610	0.780	0.980	SAME AS UL	
OR.	最大電阻 MAX.RESISTA	NCE	Ω/KM	232.1	155	92.4	60.1	37.0	23.6		
	完成外徑 O.D. (±0.10)	MM	1.15	1.25	1,40	1,55	1,70	1.96		
ZS.	絕緣體厚度	AVG	NOT	15						15	
SULATI 絕緣體	INSULATION THICKNESS	MIN	MIL			I	3			13	
INSULATION	外被厚度	AVG	1477			10	/			7	
Z	JACKET THICKNESS	MIN	MIL			7					
	線電阻 ATION ESISTANG	CE	MΩ/KM	. 15						15	
	太験 SPARK TEST		KV	- 3						5	
最小便	申長率 ELONGATIO	NC	9/0	100						100	
	话强強度 IL STRENGTH		PSI	1500						1500	
最小老	化後伸長率 FTER AGING)		%	OF UNAGED 65						65	
最小老	ど化後抗張強度 L(AFTER AGING)		%	OF UNAGED 70						75	
	t驗溫度/條件 AGI	NG TEN	MP./TIME		121 C/48HRS						
耐油制	就驗 OIL LMMERS	ION TE	ST	100°C/96HRS 50%						7	
耐燃爆	態試驗 FIAME TES	T				V	W-1			FTI	
高溫和	應繞試驗 HEAT SH	121°C/1HR 1.60MM MANDREL						121°C/1HRS			
	雙形試驗 DEFORM	121°C/1HR 250G 50%						113°C/1HR 150G 50%			
低溫組	連繞試驗 COLD BE	END TE	ST	10°C/1HR 3.2MM MANDREL					-15 C/1HR		
耐雷调	送試驗 INSULATIO	N POT	ENTIALST	2KVAC/min					2KVAC/min		

MARK: \$\sum \text{AWM 1007 VW-1 80°C 300V E108485-S ()AWG REI HSING CSA TR-64 90°C LL84687 ()AWG FT1 -F- LF

ISSUED	2000-01-28	APPROVED	CHECKED	PREPARED
REVISION	2006-12-25	洪炎	李荣	蒲國榮



File E108485

Vol. 2

Issued: 01-17-97

Revised:

5-9-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

COMPONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer:

REI HSING WIRE & CABLE CO LTD

(342072-001)

TSENG TEN INDUSTRIAL PARK

CHEN KOU

CHANG AN TOWN

DONGGUAN GUANGDONG CHINA

Applicant:

REI HSING WIRE CO LTD

(559504-001)

56-5 JIUN-ING ST

SHUH-LIN CITY

TAIPEI HSIEN

TAIWAN.

* Recognized

SAME AS APPLICANT

Company: (559504-001):

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and the representatives of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

The PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC., and is not transferable.

UNDERWRITERS LABORATORIES INC.

J. J. Ritchie

Vice President

Laboratory Management and Operations profit organization dedicated to public safety, committed to quality service.

UNDERWRITERS LABORATORIES INC. FACTORY INSPECTION PROCEDURE Vol. 2 Section 1 Page A

File E108485

Issued: 01-17-97

Revised: 6-19-01

TABLE OF AUTHORIZED STYLES SINGLE-CONDUCTOR THERMOPLASTIC-INSULATED WIRE

(File	at Front	t of Section	on I)								
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!!	1003		!F!	1028	6-4-97	1.1	1053		1.1	1078	
1.1	1004		!!	1029		1.1	1054		1.1	1079	
1.1	1005		1.1	1030		!!	1055		1 1	1080	
1.1	1006		1.1	1031		!!	1056		!!	1081	
!F!	1007	6-4-97	1 !	1032	6-19-01	1.1	1057		!!	1082	
!!	1008		1.1	1033		1.1	1058		1 !	1083	
1.1	1009		1.1	1034		1.1	1059		1.1	1084	
1.1	1010		1.1	1035		1.1	1060		!!	1085	
!F!	1011	6-4-97	1.1	1036		1.1	1061	1-17-97	1.1	1086	
1.1	1012		1 !	1037		1.1	1062		1 1	1087	
!F!	1013	6-4-97	1.1	1038		! !	1063		1 1	1088	
1.1	1014		1 1	1039		1.1	. 1064		!!	1089	
!F!	1015	6-4-97	1 1	1040		1.1	1065		1 1	1090	
1.1	1016		!!	1041		1 1	1066		1.1	1091	
1.1	1017		1.1	1042		1 1	1067		1.1	1092	
1.1	1018		1.1	1043		!!	1068		1.1	1093	
1.1	1019		1.1	1044		!!	1069		1.1	1094	
1.1	1020		1 !	1045		1.1	1070		!F!	1095	6-4-97
1.1	1021		1 1	1046		1 1	1071		!!	1096	
1.1	1022		1.1	1047		!!	1072		!!	1097	
1.1	1023		1.1	1048		1.1	1073		1.1	1098	
!!	1024		1.1	1049		!!	1074		1.1	1099	
1.1	1025		1.1	1050		1.1	1075		!!	1100	



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SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-01

Client Ref. Info. : I-PE-01; I-PP-01; I-PU-01; I-RU-01; I-TPR-01; I-PE-01

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.002	White liquid	6
SN2	CAN19-014883.005	White liquid	181
SN3	CAN19-014883.008	White liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	005
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	005
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	005
I	4	Anthracene	120-12-7	0.050	005
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	005
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	005
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	005
I	8	Cobalt dichloride*	7646-79-9	0.005	005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	005
I	10	Diarsenic trioxide*	1327-53-3	0.005	005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	005
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	005
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	005
I	15	Triethyl arsenate*	15606-95-8	0.005	005
II	16	2,4-Dinitrotoluene	121-14-2	0.050	005
II	17	Acrylamide	79-06-1	0.050	005
II	18	Anthracene oil**	90640-80-5	0.050	005
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	005
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	005
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	005
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	005
II	25	Lead chromate*	7758-97-6	0.005	005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	005
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	005
III	29	Ammonium dichromate*	7789-09-5	0.005	005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	005
Ш	32	Potassium chromate*	7789-00-6	0.005	005
Ш	33	Potassium dichromate*	7778-50-9	0.005	005
III	34	Sodium chromate*	7775-11-3	0.005	005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	005
Ш	36	Trichloroethylene	79-01-6	0.050	005
IV	37	2-Ethoxyethanol	110-80-5	0.050	005
IV	38	2-Methoxyethanol	109-86-4	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	005
IV	40	Chromium trioxide*	1333-82-0	0.005	005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	005
V	45	1,2,3-trichloropropane	96-18-4	0.050	005
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	005
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	005
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	005
V	49	2-ethoxyethyl acetate	111-15-9	0.050	005
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	005
V	51	Strontium chromate*	7789-06-2	0.005	005
VI	52	1,2-Dichloroethane	107-06-2	0.050	005
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	005
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	005
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	005
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	005
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	005
VI	60	Calcium arsenate*	7778-44-1	0.005	005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	005
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	005
VI	64	Lead dipicrate*	6477-64-1	0.005	005
VI	65	Lead styphnate*	15245-44-0	0.005	005
VI	66	N,N-dimethylacetamide	127-19-5	0.050	005
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	005
VI	68	Phenolphthalein	77-09-8	0.050	005
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	005
VI	70	Trilead diarsenate*	3687-31-8	0.005	005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	005
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	005
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	005
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	005
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	005
VII	78	Diboron trioxide*	1303-86-2	0.005	005
VII	79	Formamide	75-12-7	0.050	005
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	005
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	005
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	005
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	005
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	005
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	005
VIII	88	1-Bromopropane	106-94-5	0.050	005
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	005
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	005
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	005
VIII	93	4-Aminoazobenzene	60-09-3	0.050	005
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	005
VIII	95	4-Nonylphenol, branched and linear	-	0.050	005
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	005
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	005
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	005
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	005
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	005
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	005
VIII	103	Diethyl sulphate	64-67-5	0.050	005
VIII	104	Diisopentylphthalate	605-50-5	0.050	005
VIII	105	Dimethyl sulphate	77-78-1	0.050	005
VIII	106	Dinoseb	88-85-7	0.050	005
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	005
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	005
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	005
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	005
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	005
VIII	114	Lead cyanamidate*	20837-86-9	0.005	005
VIII	115	Lead dinitrate*	10099-74-8	0.005	005
VIII	116	Lead monoxide*	1317-36-8	0.005	005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	005
VIII	121	Methoxyacetic acid	625-45-6	0.050	005
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	005
VIII	123	N,N-dimethylformamide	68-12-2	0.050	005
VIII	124	N-Methylacetamide	79-16-3	0.050	005
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	005
VIII	126	o-Aminoazotoluene	97-56-3	0.050	005
VIII	127	o-Toluidine	95-53-4	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	005
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	005
VIII	134	Tetraethyllead*	78-00-2	0.005	005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	005
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	005
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	005
IX	141	Cadmium oxide*	1306-19-0	0.005	005
IX	142	Cadmium*	7440-43-9	0.005	005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	005
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	005
Х	145	Cadmium sulphide*	1306-23-6	0.005	005
Χ	146	Dihexyl phthalate	84-75-3	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	005
Х	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	005
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	005
Х	150	Lead di(acetate)*	301-04-2	0.005	005
Х	151	Trixylyl phosphate	25155-23-1	0.050	005
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	005
ΧI	153	Cadmium chloride*	10108-64-2	0.005	005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005	005
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	005
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	005
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	005
XII	159	Cadmium fluoride*	7790-79-6	0.005	005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy l-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	005
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	005
XIV	164	1,3-propanesultone	1120-71-4	0.050	005
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	005
XIV	167	Nitrobenzene	98-95-3	0.050	005
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	005
XVI	171	4-Heptylphenol, branched and linear	-	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	005
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	005
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	005
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	005
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	005
XVIII	178	Cadmium carbonate*	513-78-0	0.005	005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	005
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	008
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	008
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	008
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	008
XIX	186	Disodium octaborate*	12008-41-2	0.005	008



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	008
XIX	188	Ethylenediamine	107-15-3	0.050	008
XIX	189	Lead*	7439-92-1	0.005	008
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	008
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	008
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	002
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	002
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	002
XX	195	Fluoranthene	206-44-0	0.050	002
XX	196	Phenanthrene	85-01-8	0.050	002
XX	197	Pyrene	129-00-0	0.050	002



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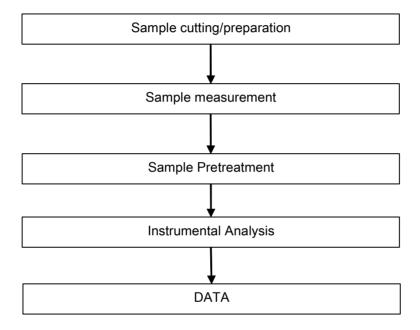
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SVHC Testing Flow Chart





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Sample photo:







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Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

This report is to supersede test report CANEC1910676513

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-02 Date of Sample Received: 05 Jun 2019

05 Jun 2019 - 12 Jun 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** SN₁ CAN19-106765.003 Black liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19106765	519	Date: 2	21 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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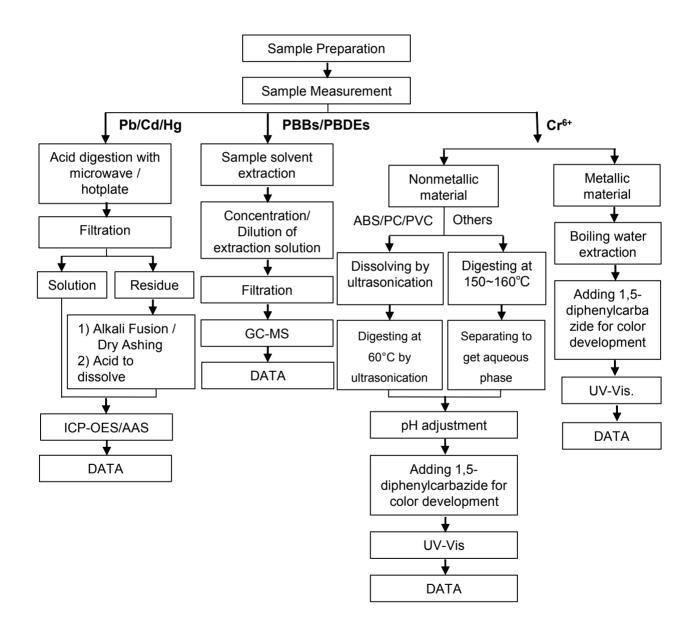
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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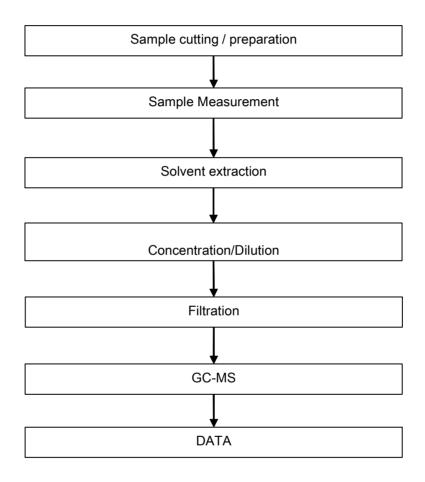
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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676519

Page 6 of 6

Date: 21 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,





Page 1 of 7

Report No. A2190175998101034

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BROWN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101034

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A2190175998101034 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101034

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	96 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Brown wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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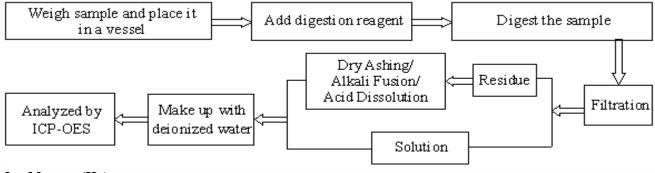


Report No. A2190175998101034

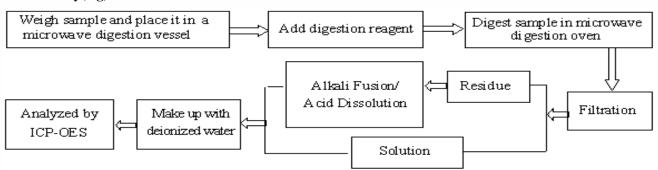
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



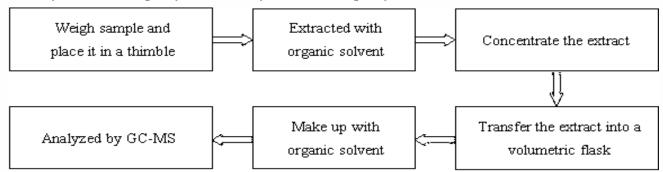
2. Mercury(Hg)

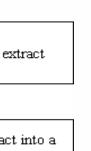


3. Hexavalent Chromium(Cr(VI))

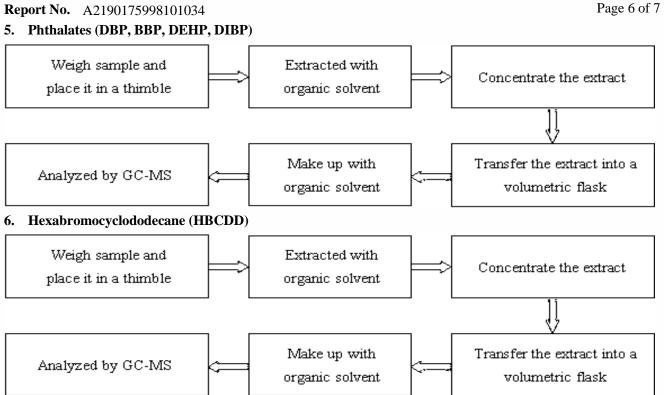


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101034

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Photo(s) of the sample(s)



*** End of report ***

Statement:

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Page 1 of 7

Report No. A2190175998101028

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample (s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name GREEN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internation

freme Zhang flill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101028

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101028 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101028

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	350 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Green wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

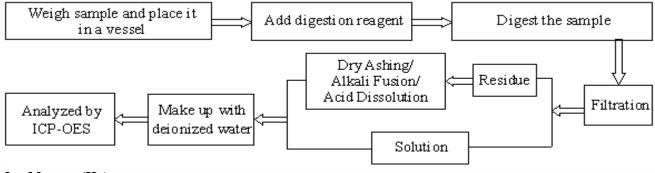


Report No. A2190175998101028

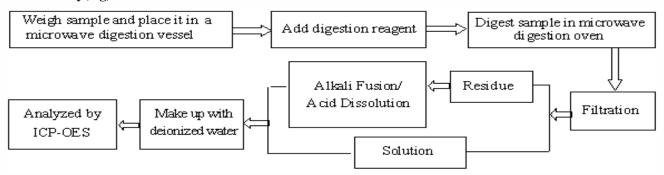
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



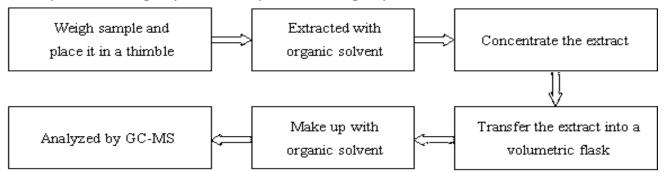
2. Mercury(Hg)

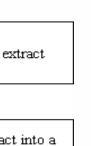


3. Hexavalent Chromium(Cr(VI))

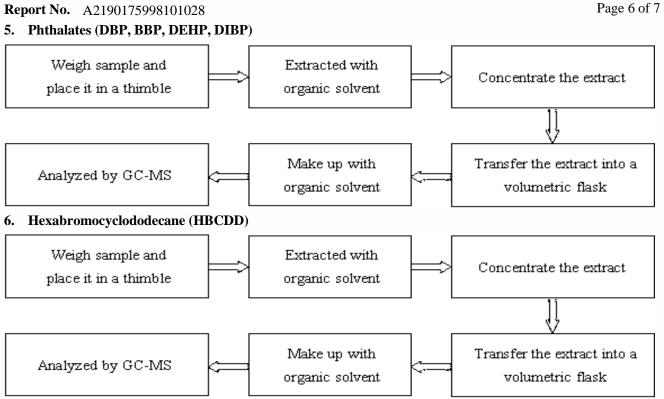


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







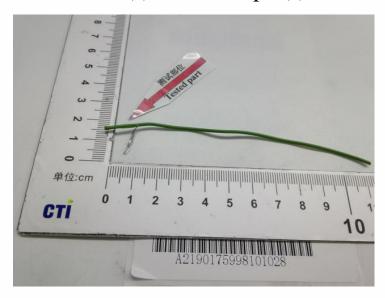




Report No. A2190175998101028

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Photo(s) of the sample(s)



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Page 1 of

Report No. A2190175998101025

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

 $The following \ sample(s) \ and \ sample \ information \ was/were \ submitted \ and \ identified \ by/on \ the \ behalf \ of \ the \ client$

Sample Name BLUE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

from Zhang
Hill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

tre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101025

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101025 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101025

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	102 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Blue wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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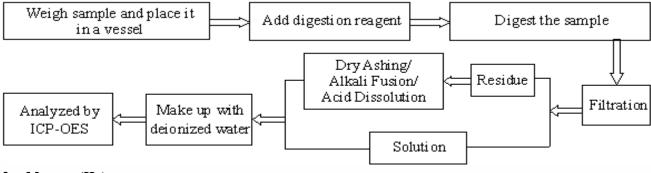


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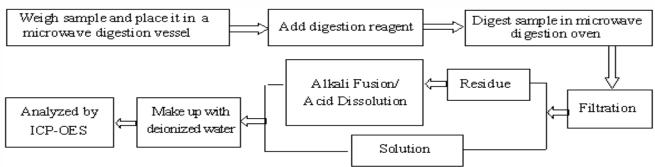
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



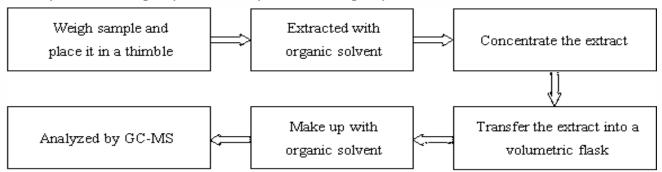
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

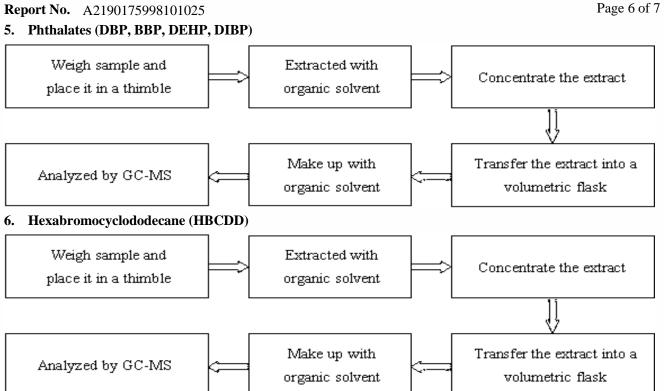


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101025

Page 7 of 7

Photo(s) of the sample(s)



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Report No. A2190175998101022

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

GREY PVC LF INSULATED WIRE Sample Name

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

> Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Please refer to the following page(s). Test Result(s)

sting International Group Co.,Ltd.

flill show

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101022

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101022 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101022

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	113 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Grey wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

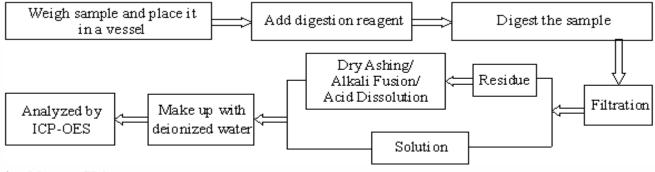


Report No. A2190175998101022

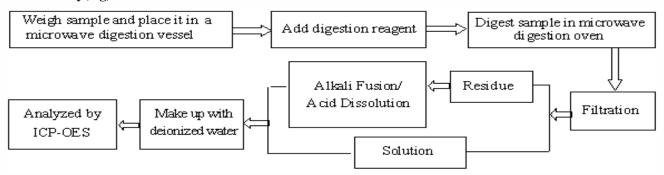
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



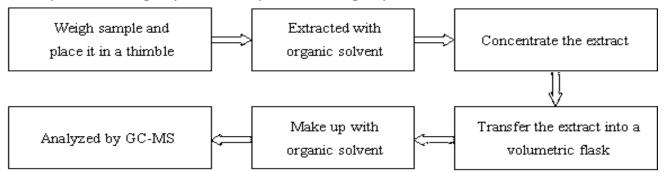
2. Mercury(Hg)

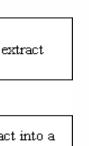


3. Hexavalent Chromium(Cr(VI))

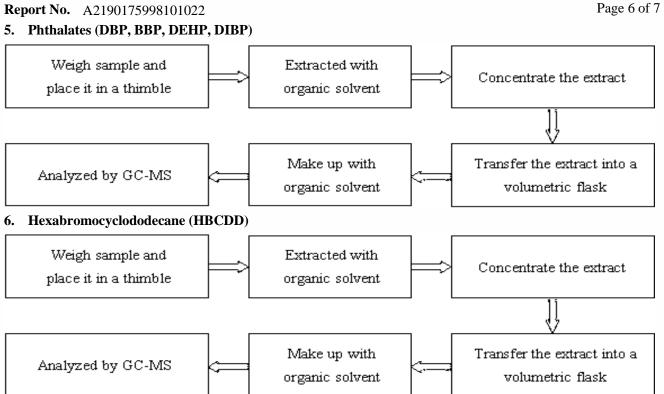


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101022

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.





Report No. A2190175998101019

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name YELLOW PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

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Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101019

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101019 **Test Result(s)** Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101019

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Yellow wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

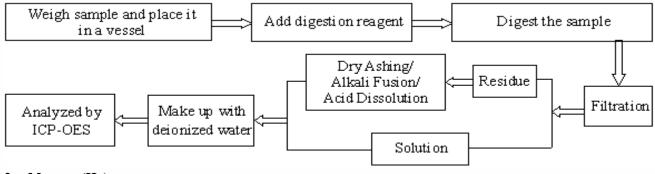


Report No. A2190175998101019

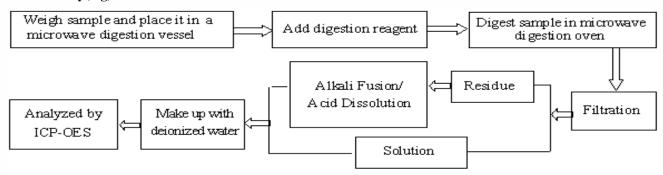
Page 5 of 7

Test Process

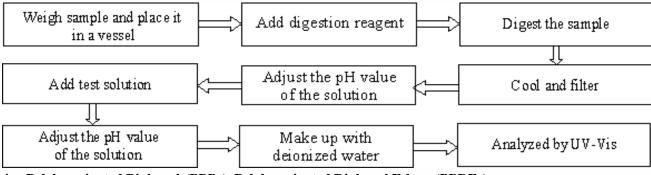
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



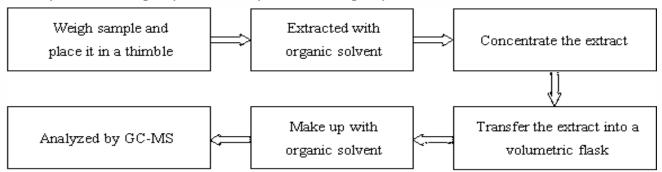
2. Mercury(Hg)

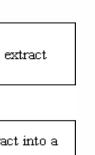


3. Hexavalent Chromium(Cr(VI))

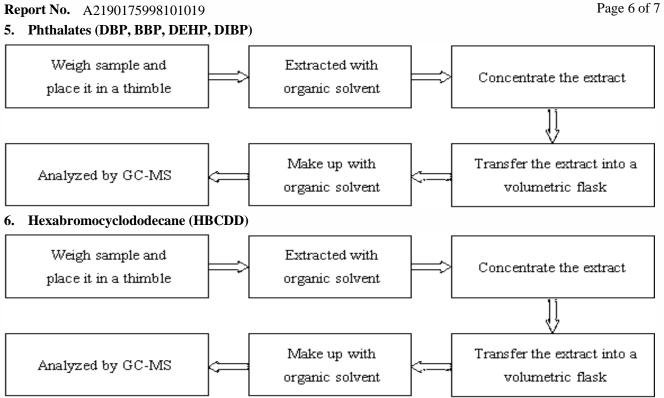


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101019

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.





Report No. A2190175998101013

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name RED PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

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Hill Zheng

Technical Manager

Pori Xia Reviewed by

Jul. 18, 2019

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



Report No. A2190175998101013

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101013 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101013

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL		
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg		
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg		
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg		
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg		
Tested Item(s)	Result	MDL		
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg		

Sample/Part Description

Red wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

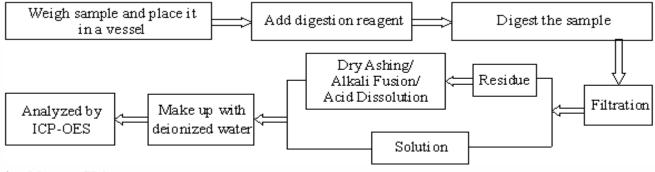


Report No. A2190175998101013

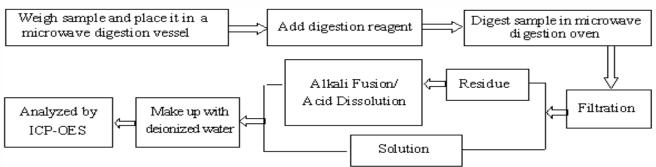
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



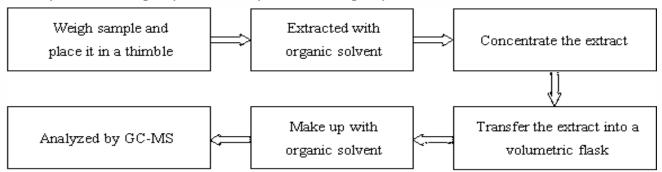
2. Mercury(Hg)

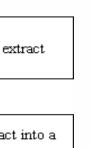


3. Hexavalent Chromium(Cr(VI))

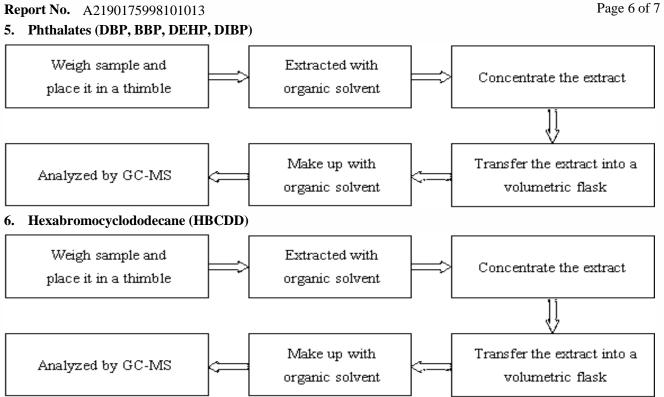


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







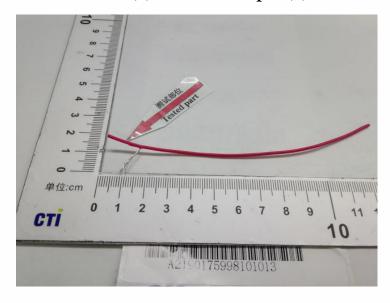




Report No. A2190175998101013

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101010

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BLACK PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing

Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

ting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101010

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101010 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101010

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	138 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Black wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

rvice

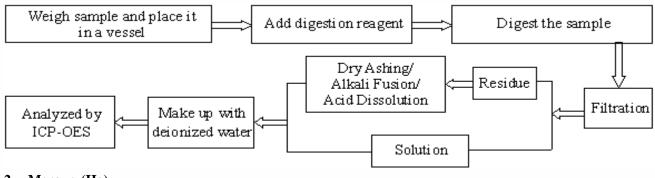


Report No. A2190175998101010

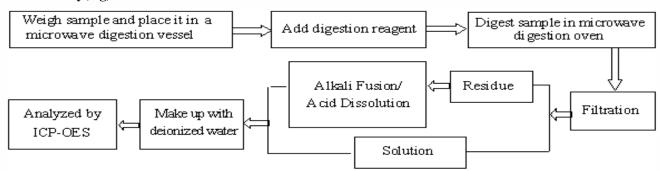
Page 5 of 7

Test Process

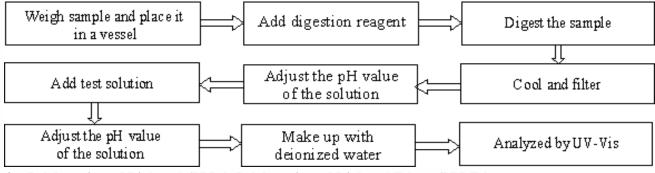
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



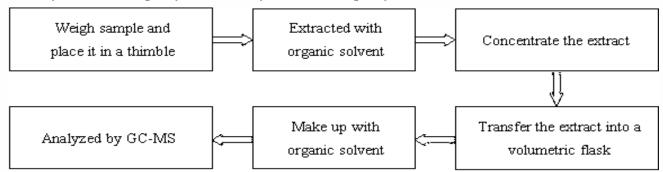
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

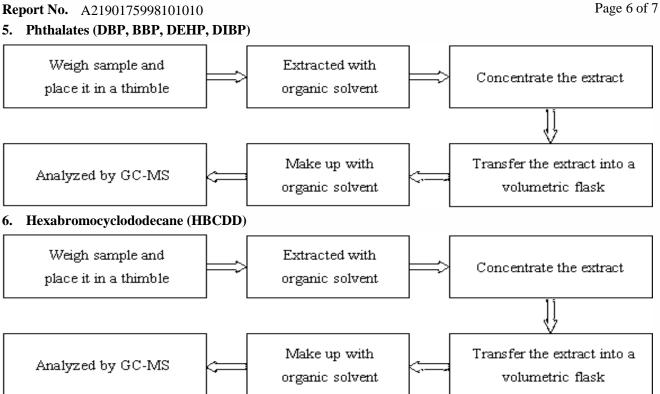


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101010

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Photo(s) of the sample(s)



*** End of report ***

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Page 1 of 7

Report No. A2190175998101004

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name ORANGE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

frence Zhang flill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101004

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101004 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101004

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	88 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Orange wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

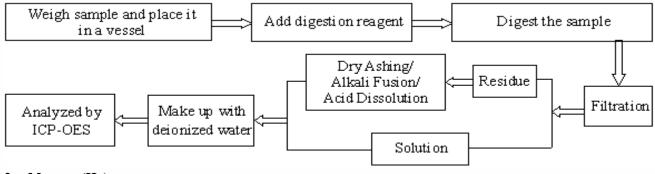


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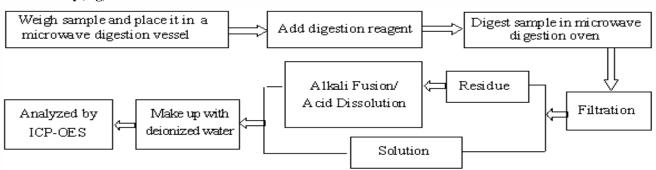
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



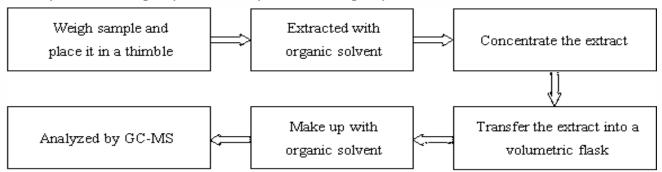
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

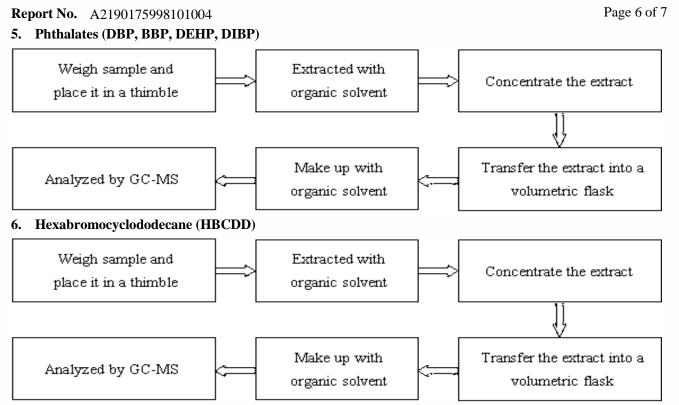


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







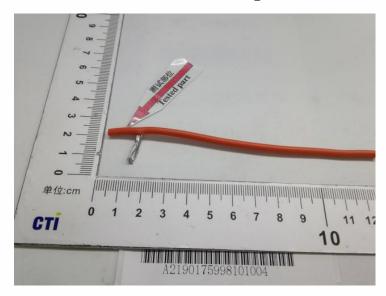




Report No. A2190175998101004

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Photo(s) of the sample(s)



*** End of report ***

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Report No. A2190175998101001

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

WHITE PVC LF INSULATED WIRE Sample Name

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Reihsing Supplier Jul. 15, 2019 Sample Received Date

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101001

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101001 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101001

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	92 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

White wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

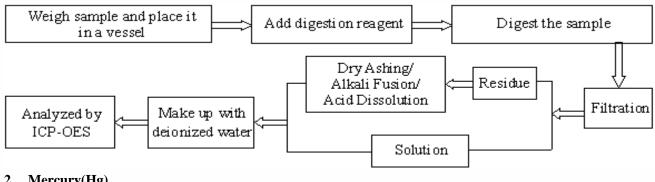


Report No. A2190175998101001

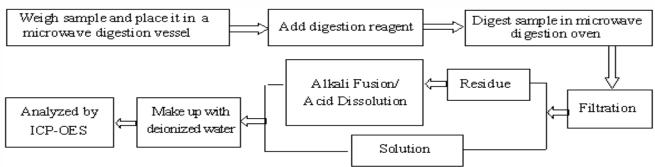
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



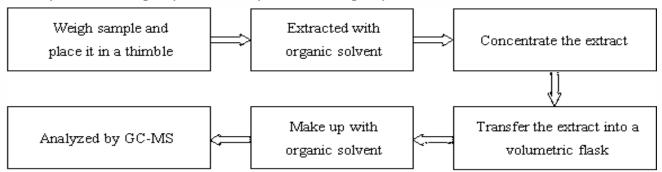
2. Mercury(Hg)

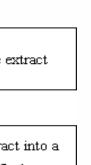


3. Hexavalent Chromium(Cr(VI))

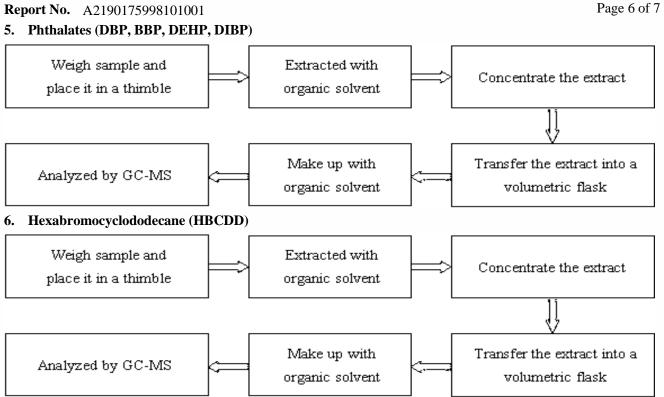


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)













Report No. A2190175998101001

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 1 of 7

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

中国·广州·经济技术开发区科学城科珠路198号

Violet,Shi

Approved Signatory

Volet Shi



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-040324.001 Copper colored metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19040324	401	Date: 2	21 Mar 2019	Page 3 of 7
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND



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No. CANEC1904032401

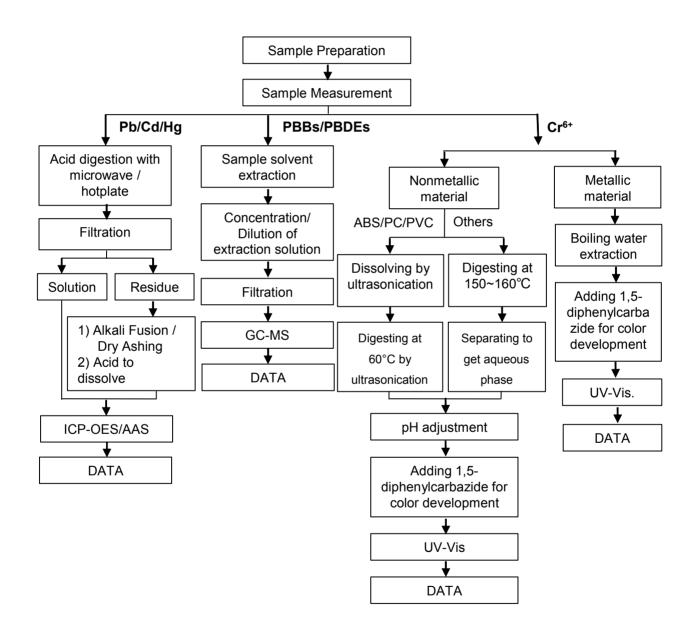
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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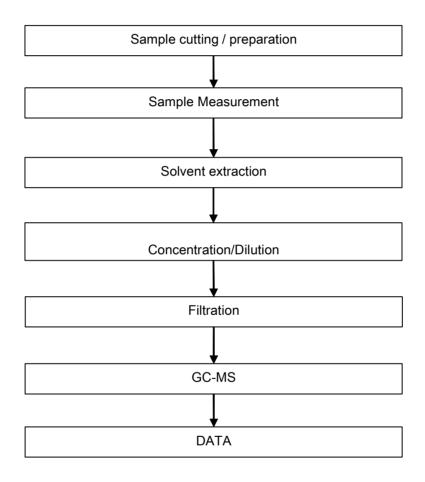
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Phthalates Testing Flow Chart





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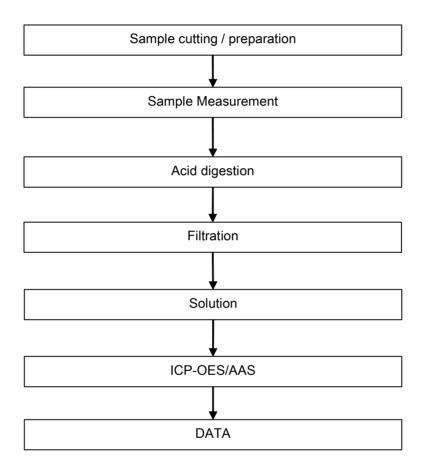
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report (SVHC)

No. CANEC1904032403

Date: 21 Mar 2019

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DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD
QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE, TINNED COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the

notification of WTO on Feb 7, 2019.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Nobet Shi



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Test Report (SVHC)

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Date: 21 Mar 2019

Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Test Report (SVHC)

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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of \geq 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or \geq 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.003	Copper colored metal wire(a)+silvery plated
		metal wire(b)

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Report (SVHC)

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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC
- 10. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
1	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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中国·广州·经济技术开发区科学城科珠路198号

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	×	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Χ	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050



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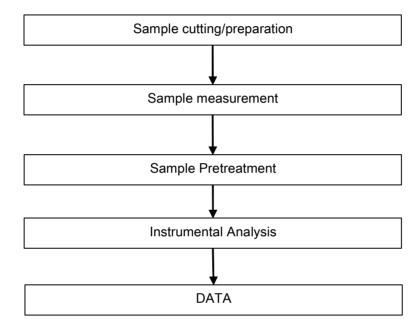
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1904032402 Date: 21 Mar 2019 Page 1 of 12

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: TINNED COPPER

WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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No. CANEC1904032402

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN19-040324.002 Silvery plated metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

中国·广州·经济技术开发区科学城科珠路198号



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Test Report	No. CANEC1904032402		Date: 21 Mar 2019		Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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Test Report	No. CANEC1904032402	Date: 21 Mar 2019	Page	e 4 of 12
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ac		mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Ar	nthracene,			
Fluoranthene				ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category 3			
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeab contact to skin for less than 30 (short-term skin contact).			
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG		
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2 < 0.5		< 0.5	< 1		
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum		
Naphthalene, mg/kg	< 1	< 2		< 10			
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50		

PFOS (Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s) CAS NO. <u>Unit</u> MDL 002 Perfluorooctane Sulfonates (PFOS)^ ND mg/kg 10

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,



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N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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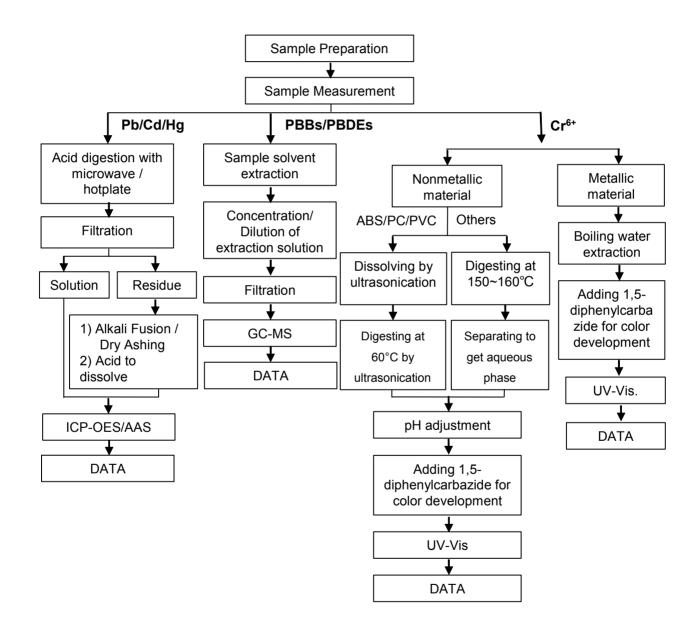
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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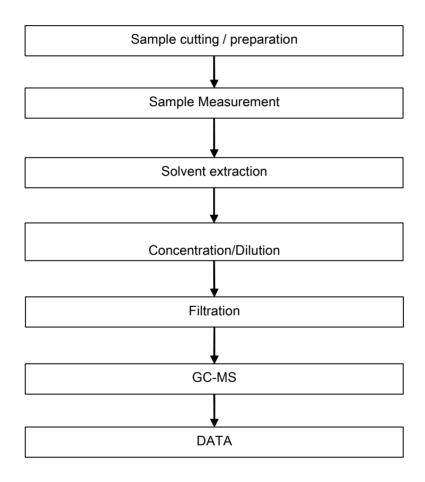
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Phthalates Testing Flow Chart





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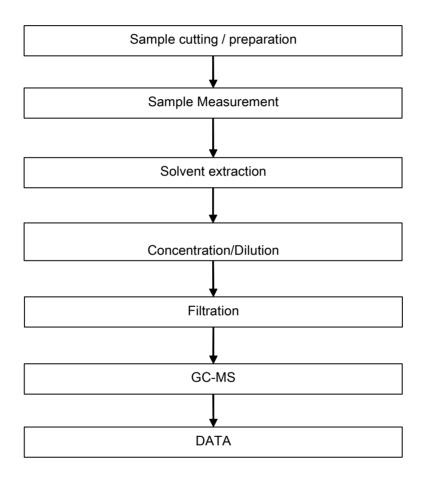
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PAHs Testing Flow Chart





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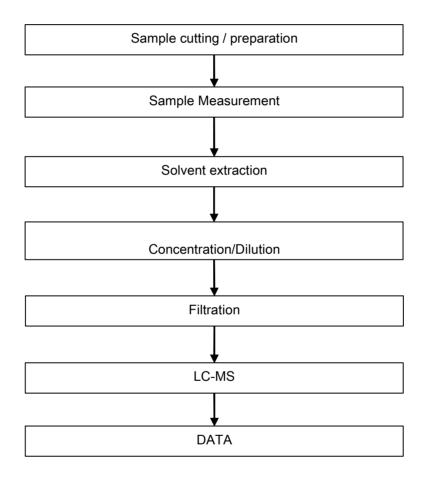
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PFOA / PFOS Testing Flow Chart





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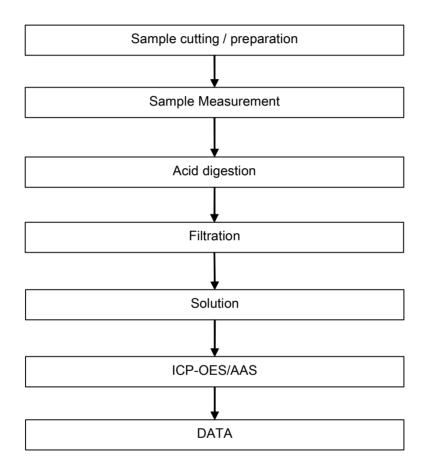
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-02

Client Ref. Info. : I-PE-02;I-PP-02; I-PU-02; I-RU-02; I-TPR-02;I-PPE-02

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

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If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.001	Black liquid	6
SN2	CAN19-014883.004	Black liquid	181
SN3	CAN19-014883.007	Black liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
_	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	004
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	004
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	004
I	4	Anthracene	120-12-7	0.050	004
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	004
_	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	004
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	004
I	8	Cobalt dichloride*	7646-79-9	0.005	004
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	004
I	10	Diarsenic trioxide*	1327-53-3	0.005	004
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	004
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	004
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005	004
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	004
I	15	Triethyl arsenate*	15606-95-8	0.005	004
II	16	2,4-Dinitrotoluene	121-14-2	0.050	004
II	17	Acrylamide	79-06-1	0.050	004
II	18	Anthracene oil**	90640-80-5	0.050	004
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	004
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	004
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	004
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	004
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	004
II	25	Lead chromate*	7758-97-6	0.005	004
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	004
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	004
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	004
III	29	Ammonium dichromate*	7789-09-5	0.005	004
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	004
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	004
Ш	32	Potassium chromate*	7789-00-6	0.005	004
Ш	33	Potassium dichromate*	7778-50-9	0.005	004
III	34	Sodium chromate*	7775-11-3	0.005	004
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	004
III	36	Trichloroethylene	79-01-6	0.050	004
IV	37	2-Ethoxyethanol	110-80-5	0.050	004
IV	38	2-Methoxyethanol	109-86-4	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	004
IV	40	Chromium trioxide*	1333-82-0	0.005	004
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	004
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	004
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	004
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	004
V	45	1,2,3-trichloropropane	96-18-4	0.050	004
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	004
\	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	004
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	004
V	49	2-ethoxyethyl acetate	111-15-9	0.050	004
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	004
V	51	Strontium chromate*	7789-06-2	0.005	004
VI	52	1,2-Dichloroethane	107-06-2	0.050	004
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	004
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	004
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	004
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	004



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	004
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	004
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	004
VI	60	Calcium arsenate*	7778-44-1	0.005	004
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	004
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	004
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	004
VI	64	Lead dipicrate*	6477-64-1	0.005	004
VI	65	Lead styphnate*	15245-44-0	0.005	004
VI	66	N,N-dimethylacetamide	127-19-5	0.050	004
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	004
VI	68	Phenolphthalein	77-09-8	0.050	004
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	004
VI	70	Trilead diarsenate*	3687-31-8	0.005	004
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	004
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	004
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	004
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	004
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	004
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	004
VII	78	Diboron trioxide*	1303-86-2	0.005	004
VII	79	Formamide	75-12-7	0.050	004
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	004
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	004
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	004
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	004
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	004
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	004
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	004
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	004
VIII	88	1-Bromopropane	106-94-5	0.050	004
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	004
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	004	
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	101-80-4 0.050		
VIII	93	4-Aminoazobenzene	60-09-3	0.050	004	
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	004	
VIII	95	4-Nonylphenol, branched and linear	-	0.050	004	
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	004	
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	004	
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	004	
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	004	
III	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	004	
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	004	
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	004	
VIII	103	Diethyl sulphate	64-67-5	0.050	004	
VIII	104	Diisopentylphthalate	605-50-5	0.050	004	
VIII	105	Dimethyl sulphate	77-78-1	0.050	004	
VIII	106	Dinoseb	88-85-7	85-7 0.050 004		
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	004	
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	004	



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	004
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	004
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	004
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	004
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	004
VIII	114	Lead cyanamidate*	20837-86-9	0.005	004
VIII	115	Lead dinitrate*	10099-74-8	0.005	004
VIII	116	Lead monoxide*	1317-36-8	0.005	004
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	004
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	004
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	004
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	004
VIII	121	Methoxyacetic acid	625-45-6	0.050	004
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	004
VIII	123	N,N-dimethylformamide	68-12-2	0.050	004
VIII	124	N-Methylacetamide	79-16-3	0.050	004
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9 0.050		004
VIII	126	o-Aminoazotoluene	97-56-3	0.050	004
VIII	127	o-Toluidine	95-53-4	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	004
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	004
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	004
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	004
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	004
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	004
VIII	134	Tetraethyllead*	78-00-2	0.005	004
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	004
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	004
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	004
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	004
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	004
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	004
IX	141	Cadmium oxide*	1306-19-0	0.005	004
IX	142	Cadmium*	7440-43-9	0.005	004
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	004
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	004
Х	145	Cadmium sulphide*	1306-23-6	0.005	004
Х	146	Dihexyl phthalate	84-75-3	34-75-3 0.050 004	



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	004
X	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	004
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	004
X	150	Lead di(acetate)*	301-04-2	0.005	004
Х	151	Trixylyl phosphate	25155-23-1	0.050	004
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	004
ΧI	153	Cadmium chloride*	10108-64-2	0.005	004
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	004
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	004
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	004
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	004
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	004
XII	159	Cadmium fluoride*	7790-79-6	0.005	004
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	004
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	004
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	004
XIV	164	1,3-propanesultone	1120-71-4	0.050	004
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	004
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	004
XIV	167	Nitrobenzene	98-95-3	0.050	004
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 0.050 -39-8,4149-60-4		004
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	004
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	004
XVI	171	4-Heptylphenol, branched and linear	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID	
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	004	
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6 0.05		004	
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	004	
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	- 0.050		004	
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	004	
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	004	
XVIII	178	Cadmium carbonate*	513-78-0 0.00		004	
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	004	
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	004	
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	004	
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	007	
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	007	
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	007	
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	007	
XIX	186	Disodium octaborate*	12008-41-2	0.005	007	



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	007
XIX	188	Ethylenediamine	107-15-3	0.050	007
XIX	189	Lead*	7439-92-1	0.005	007
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	007
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	007
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8 0.050		001
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	001
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	001
XX	195	Fluoranthene	206-44-0	0.050	001
XX	196	Phenanthrene	85-01-8 0.050		001
XX	197	Pyrene	129-00-0	0.050	001



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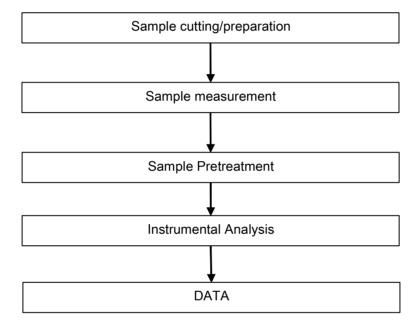
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ATTACHMENTS

SVHC Testing Flow Chart





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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-01 Date of Sample Received: 05 Jun 2019

Testing Period: 05 Jun 2019 - 12 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-106765.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676507		Date:	12 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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No. CANEC1910676507

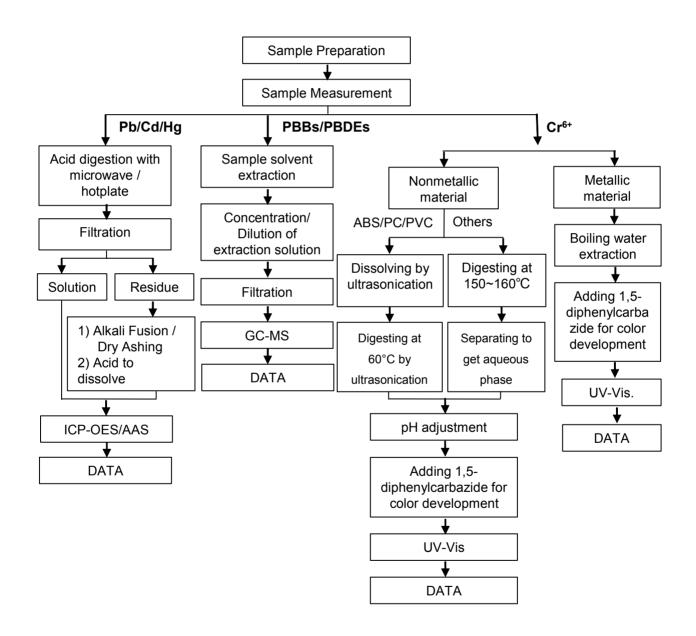
Page 4 of 6

Date: 12 Jun 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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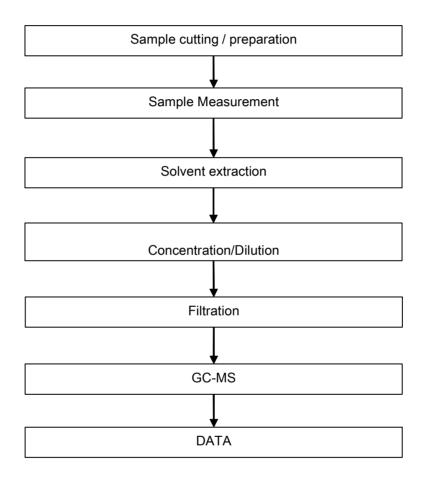
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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676507

Page 6 of 6

Date: 12 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

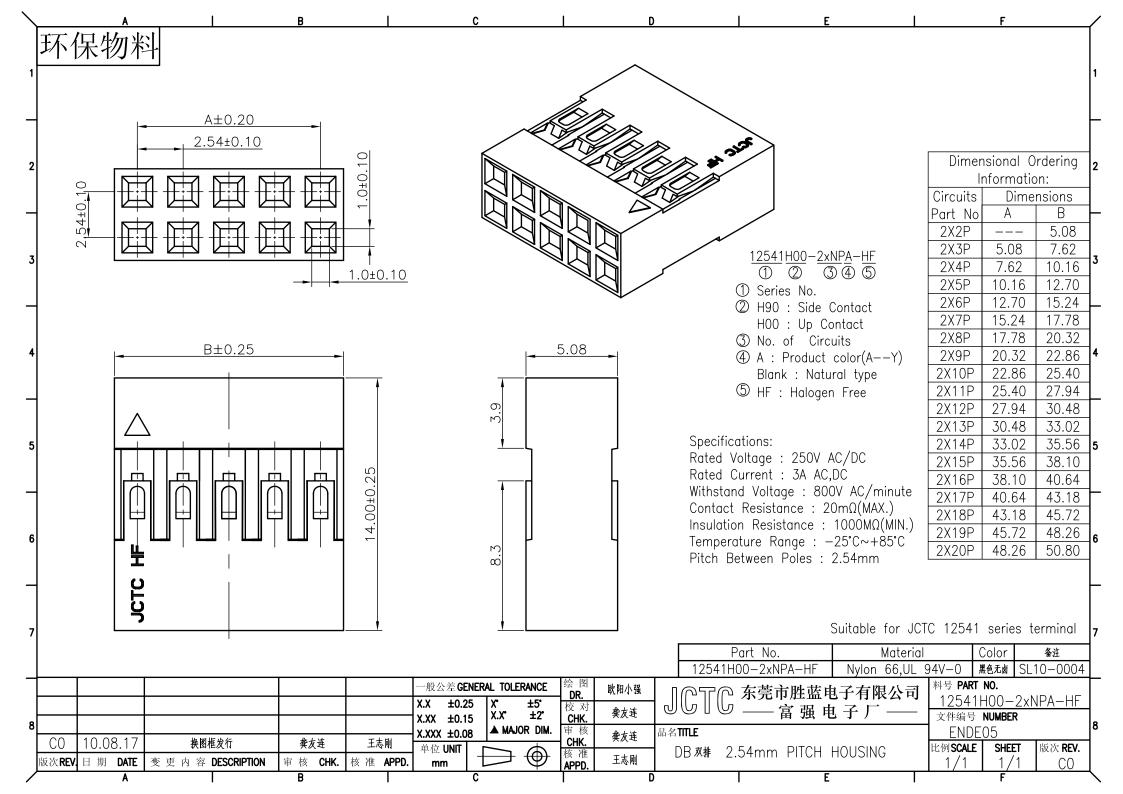
*** End of Report ***

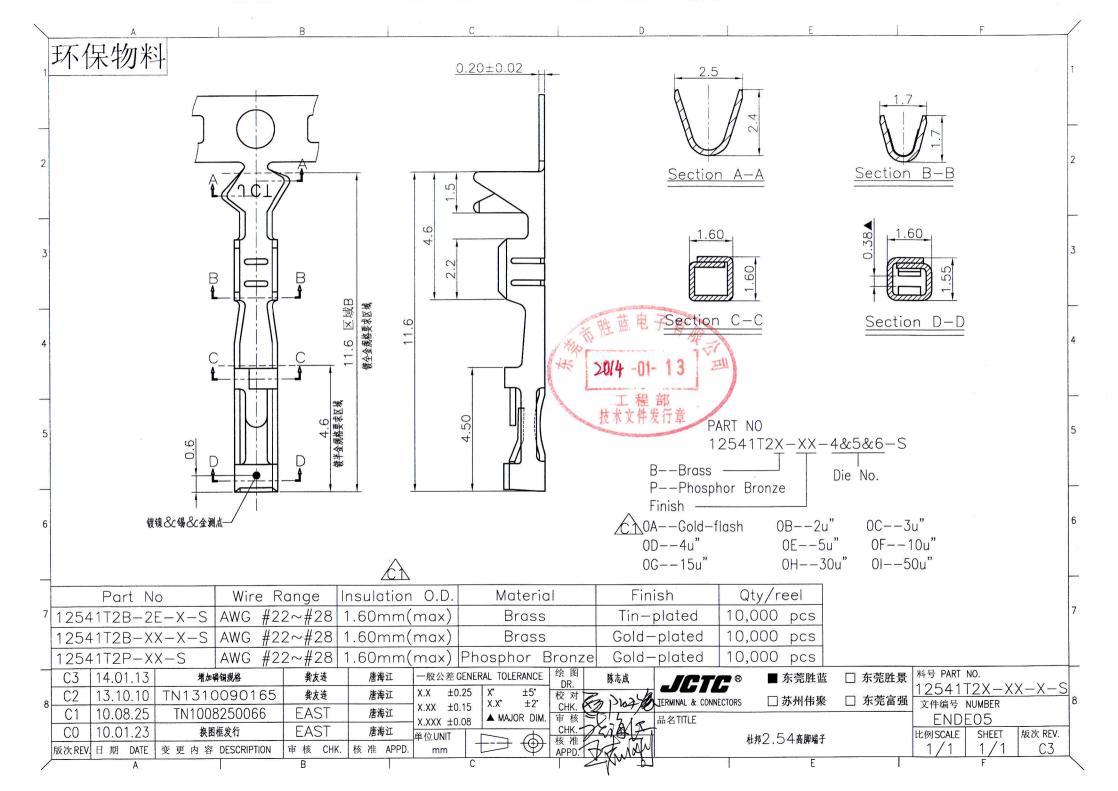


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ECBT2.E338796

Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

DONGGUAN CITY SHENGLAN ELECTRONICS CO LTD

F338796

Hexin Rd

Shatou District

Changan

Dongguan, Guangdong 523846 CHINA

Connectors, Model(s) Cat. No. 11002H00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 17, 18, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W90, follow by -2X, follow by 5, 6, 8, 9, 10, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11253H, followed by -20 or -30, followed by P.

Cat. No. 11253W, followed by -20 or -30, followed by P.

Cat. No. 11258H00, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow A thru Z or 1 thru 9.

Cat. No. 11258W90, follow by -S, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Cat. No. 12002H00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W90, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Cat. No. 12505W00, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12505W90, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P.

Cat. No. 12543H, followed by -2 thru -20, followed by P.
Cat. No. 12547H00, followed by -3 thru -8, followed by P.

Cat. No. 13502W90, followed by -2P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9.

Cat. No. 13962H00, 13962W00 and 13962W90, followed by -2P thru -10P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by - A thru -Z, or -0 thru -9.

Cat. No. 22001H, followed by -2 thru -16, followed by P.

Cat. No. 22501H, followed by -2 thru -14, followed by P.

Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.

Cat. Nos. 11001H and 11001W, followed by -30, followed by P.

Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.

Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.

Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.

Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.

Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.

Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.

Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.

Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.

Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.

Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.

Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.

Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.

Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.

Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.

Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.

Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.

Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.

Cat. Nos. 51274H-7P and 51275H-7P.

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Test Report No. CANEC1917598907 Date: 17 Sep 2019 Page 1 of 19

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Nylon 66 UL 94V-0 Natural color housing

SGS Job No. : CP19-049304 - SZ

Tested Sample Info.: Nylon 66 UL 94V-0 Natural color housing

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 05 Sep 2019

Testing Period : 05 Sep 2019 - 17 Sep 2019

Test Requested : Selected test(s) as requested by client.

中国·广州·经济技术开发区科学城科珠路198号

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalate	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)	See Results



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No. CANEC1917598907

Page 2 of 19

Date: 17 Sep 2019

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessieli

Jessie Li Approved Signatory



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No. CANEC1917598907 Date: 17 Sep 2019 Page 3 of 19

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** CAN19-175989.003 SN₁ White material

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
100	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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	100 1000 1000 1000 1000	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - mg/kg	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - - mg/kg 5 -



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637.25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method Test Method:

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

Tetrabromobisphenol A (TBBP-A)

Test Method: SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996),

analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Red Phosphor



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Test Method: SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS/

ICP-OES.

003 Test Item(s) Unit **MDL** Red phosphorus 500 ND mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category 3		
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseea contact to skin for less than 3 (short-term skin contact).		
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	< 1	< 2		< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	003
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, γ-HBCDD)			



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Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	003
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.01	ND
alkyl esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.01	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.



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In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

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iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

Phthalate(s)

Test Method: With reference to SGS in house method (SGS-CCL-TOP-042-41), analysis was performed by

LC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND

<u>European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins)</u> (SCCPs)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)	-	mg/kg	50	ND
(MCCPs)				

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

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Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS) [^]		mg/kg	0.01	ND



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Notes:

(1) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid. Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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REMARK 10001、10500、10800、11001、11002、11003、11004、11005、11006、11007、11008、 11201、11202、11204、11250、11251、11252、11253、11254、11255、11256、11257、 11258、11259、11270、11500、11501、11502、11503、11508、11800、11801、12001、 12002、12003、12004、12005、12006、12007、12008、12009、12010、12011、12012、 12013, 12014, 12015, 12016, 12017, 12018, 12501, 12502, 12503, 12504, 12505, 12506、12508、12509、12540、12541、12542、12543、12544、12545、12546、12547、 12548, 12549, 13402, 13502, 13601, 13961, 13962, 13963, 14000, 15001, 15002, 15080, 17921, 20001, 20501, 20502, 20503, 20602, 20800, 20803, 21001, 21251, 21501、21611、21811、21813、21814、21816、21817、21818、21819、22001、22501、 32001, 33001, 33002, 34201, 34202, 35401, 34502, 35081, 35082, 36201, 36202, 40301, 40302, 40303, 40305, 40306, 40501, 40502, 40503, 40504, 40505, 40506, 40507, 40508, 40513, 40536, 40559, 40561, 40562, 40583, 40584, 40586, 41001, 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50501, 50601, 50602, 50801, 50802, 51001, 51050, 51271, 51272, 51274, 51275, 51276, 51277, 51278, 51279, 51280, 52001, 52002, 52003, 52004, 52005, 52006, 52041, 52042, 52401, 52501, 52502, 52503, 52504, 54003, 54301, 55001, 60000, 60001、60100、61001、61002、61003、61004、61005、61006、61007、61008、61009、 61010、61013、61100、61270、62001、62291、62771、62772、63100、64001、64100、 65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、70500、 70600, 70801, 70901, 70910, 71008, 71101, 72001, 72007, 72008, 72010, 72101, 81290、81290、LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、 TNDA3, JTHA8, SAF85, UAHA2, TNA11, TNDA3, RJCA9, RJHA6, DSB11, MCB11, UAB11, WFB11, WTB11, RJB11, HDB11, HDB12, HDB13, UCB11, UBB1B, UBB11, UAB16, UADB8, JAB11, YB, TP, MCMBE1, UMB1B, RJMAE2, BUA0CB, BUA0CB, UCMAJ1, BS0130, RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1, TNTAE1, UCMAJ1, TNTBT3, 9001, 9002, 5000102, BT035210, THREE IN ONE, FOUR IN ONE, USB, HDMI, RJ, 0308, XSB0, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO, OEM, TNAOPO, SCA, TUAOPH, SUAS02, AWDANW, AWDCIW, AWDATB, AHFANB, TNTBC1, TNB12, TNKBG1/2/3/4, UBB14, US90, HE103A, BCO, WUSF5526, UBDU2、UBMBS1/2、BB0、BPO、HD9A、PIN、TUA0PX、6500、BS0261、B0032、BP0156、 BP0237、BT035210、HP HS、N85、QB140、UC、Charging gun、BB0158、B0026、SA96、 SA95, U1B, AT89, TN, UBB



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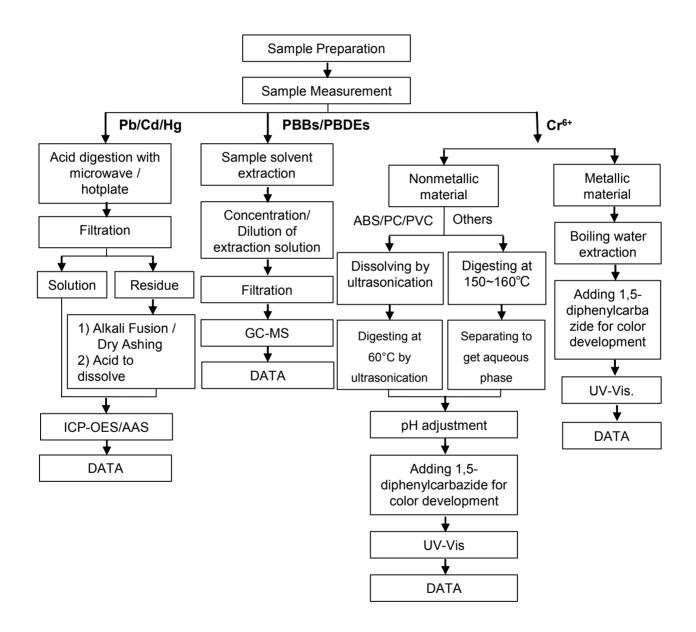
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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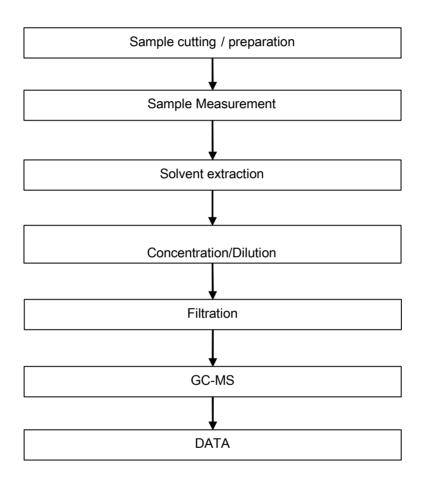
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Phthalates Testing Flow Chart





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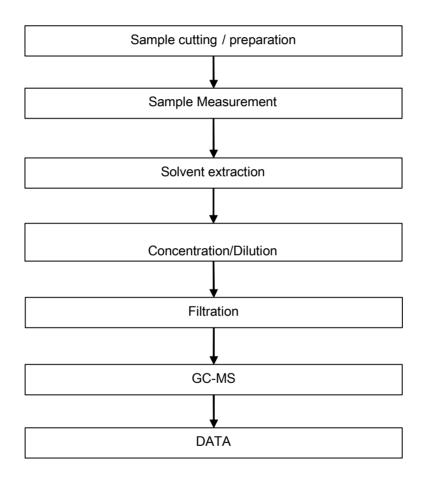
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HBCDD Testing Flow Chart





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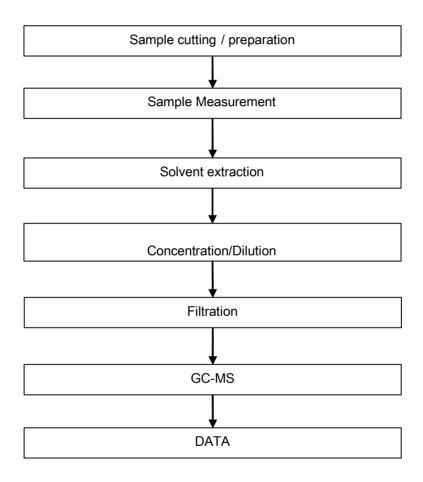
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PAHs Testing Flow Chart





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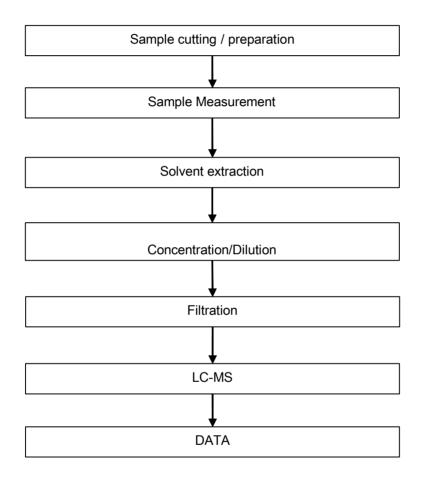
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PFOA / PFOS Testing Flow Chart





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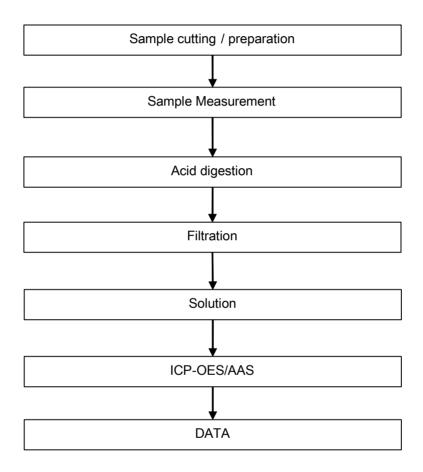
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Elementary Testing Flow Chart





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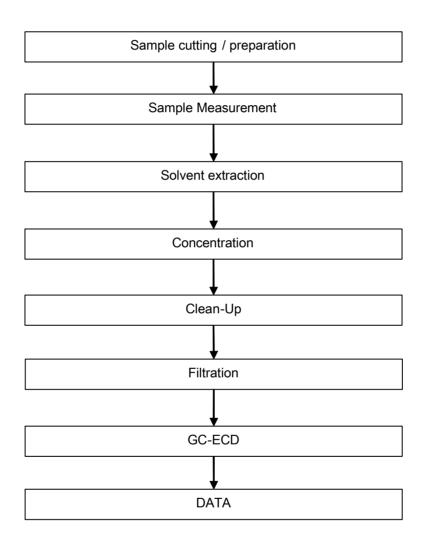
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SCCP/MCCP/LCCP Testing Flow Chart





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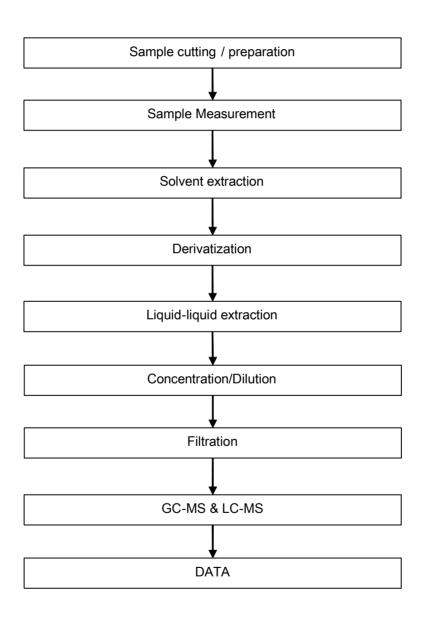


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TBBP-A Testing Flow Chart





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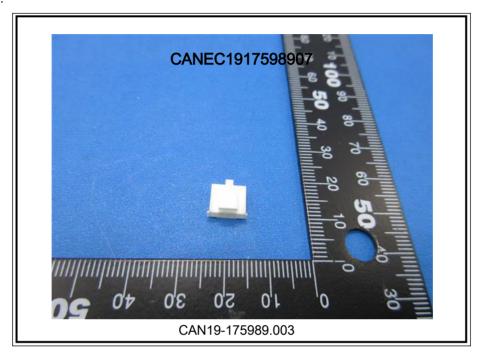


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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC1822941207 Date: 13 Nov 2018 Page 1 of 8

SHENGLAN TECHNOLOGY CO.,LTD

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Brass copperplating nickel gold terminals and welding pieces of the PIN needle

CP18-059842 - SZ SGS Job No.:

Model No.: 12547

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 06 Nov 2018

Testing Period: 06 Nov 2018 - 09 Nov 2018

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory

Yorgyu Xie



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN18-229412.003 SN₁ Silver-gray/Brassy plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	52
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis



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Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method

3050B:1996), analysis was performed by ICP-OES.

Test Item(s) 003 Unit **MDL** Beryllium (Be) mg/kg ND

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	ua/m²	1.0	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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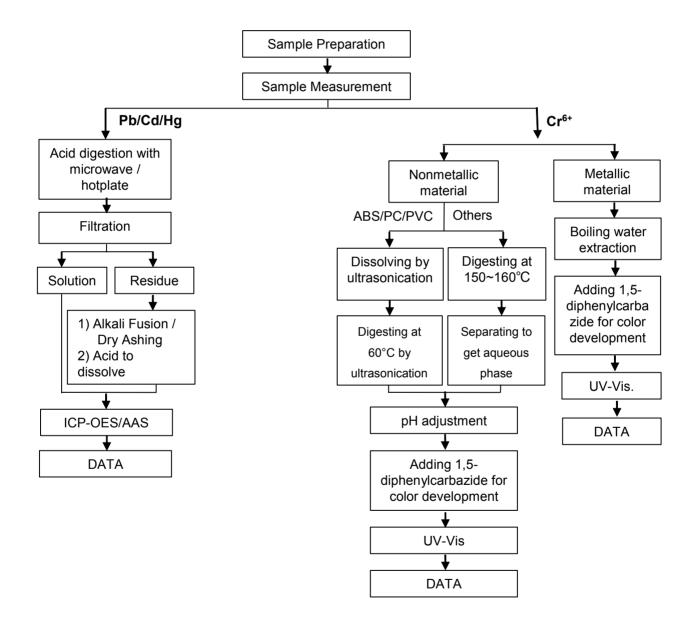
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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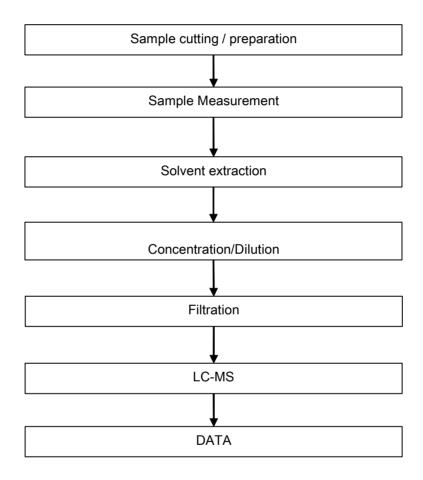
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PFOA / PFOS Testing Flow Chart





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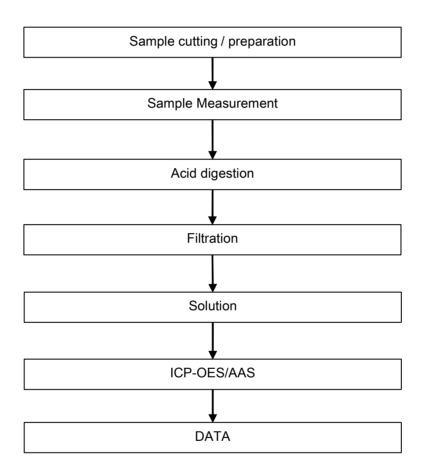
No. CANEC1822941207

Date: 13 Nov 2018

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ATTACHMENTS

Elementary Testing Flow Chart





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REMARK:

10001、	10500、	10800、	11001、	11002、	11003、	11004、	11005、	11006、	11007、	11008、
11201、	11202、	11203、	11250、	11251、	11252、	11253、	11254、	11255、	11256、	11257、
11258、	11259、	11270、	11500、	11501、	11502、	11503、	11508、	11800、	11801、	12001、
12002、	12003、	12004、	12005、	12006、	12007、	12008、	12009、	12010、	12011、	12012、
12013、	12014、	12015、	12016、	12017、	12018、	12501、	12502、	12503、	12504、	12505、
12506、	12508、	12509、	12540、	12541、	12542、	12543、	12545、	12546、	12547、	12548、
12549、	13402、	13502、	13601、	13961、	13962、	13963、	14000、	15001、	15002、	15080、
17921、	20501、	20502、	20503、	20602、	20800、	20803、	21001、	21251、	21501、	21611、
21811、	21813、	21814、	21816、	21817、	21818、	21819、	22001、	22501、	32001、	33001、
33002、	34201、	34202、	34502、	35081、	35082、	36201、	36202、	40301、	40302、	40303、
40305、	40306、	40501、	40502、	40503、	40504、	40505、	40506、	40507、	40508、	40513、
40536、	40559、	40561、	40562、	41001、	41002、	41003、	41004、	41005、	41019、	41040、
41043、	41251、	42003、	50001、	50003、	50501、	50601、	50602、	50801、	50802、	51001、
51050、	51271、	51272、	51274、	51275、	51276、	51277、	51278、	51279、	51280、	52001、
52002、	52003、	52004、	52041、	52042、	52501、	52502、	52503、	52504、	54003、	55001、
60000、	60001、	60100、	61001、	61002、	61003、	61004、	61005、	61006、	61007、	61008、
61009、	61010、	61013、	61100、	61270、	62001、	62291、	62771、	62772、	63100、	64001、

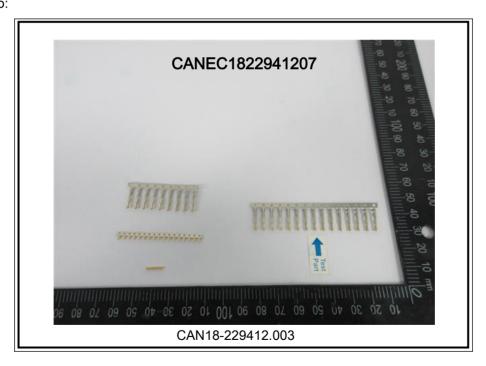


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64100、65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、 70500、72001、70600、70801、70901、71008、71101、72007、72008、72010、81290、 LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、TNDA3、JTHA8、 SAF85、UAHA2、TNA11、TNDA3、RJCA9、RJHA6、DSB11、MCB11、UAB11、WFB11、 WTB11、RJB11、HDB11、HDB12、HDB13、UCB11、UBB1B、UBB11、UAB16、UADB8、 JAB11、YB、TP、MCMBE1、UMB1B、RJMAE2、BUA0CB、BUA0CB、UCMAJ1、BS0130、 RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1、TNTAE1、UCMAJ1、TNTBT3、9001、9002、5000102、BT035210、THREE IN ONE、 FOUR IN ONE, USB, HDMI, RJ, 0308, XSBO, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO、OEM、TNAOPO、SCA、TUAOPH、SUASO2、AWDANW、AWDCIW、AWDATB、 AHFANB、TNTBC1、TNB12、TNKBG1/2/3/4、UBB14、US90、HE103A、BCO、WUSF5526、 UBDU2、UBMBS1/2、BB0、BPO Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC1911361913 Date: 25 Jun 2019 Page 1 of 14

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Black Toner

SGS Job No.: CP19-031401 - SZ

Tested Sample Info. : Black Toner

Client Ref. Info. : SL10-0004 \ SL10-0076

Date of Sample Received: 14 Jun 2019

Testing Period: 14 Jun 2019 - 25 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co.

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm guan

Approved Signatory

Luguan



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Test Report Date: 25 Jun 2019 No. CANEC1911361913 Page 2 of 14

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-113619.002 Black powder

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19113619	13	Date: 2	25 Jun 2019	Page 3 of 14
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Tin (Sn)	mg/kg	5	ND
Antimony (Sb)	mg/kg	10	ND

Tetrabromobisphenol A (TBBP-A)

Test Method: SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996),

analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.



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Test Report	No. CANEC1911361913	Date: 25 Jun 2019	Page	4 of 14
Test Item(s)	CAS	S NO. Unit	<u>MDL</u>	002
Dibutyl Phthalate (DBP)	84-74	4-2 %(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-6	8-7 %(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-8	31-7 %(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-	12-0 / %(w/w)	0.010	ND
	68515-	-48-0		
Di-n-octyl Phthalate (DNOP)	117-8	34-0 %(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-	,	0.010	ND
	68515-			
Di-n-hexyl Phthalate (DnHP)	84-79	,		ND
Diisobutyl Phthalate (DIBP)	84-69	9-5 %(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-6	6-2 %(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-1	11-3 %(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-	-26-3 %(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-1	16-8 %(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-6	1-7 %(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-1	18-0 %(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-3	31-9 %(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-6	2-8 %(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-2	23-1 %(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-5	50-5 %(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-	-8-branched alkyl 71888-	-89-6 %(w/w)	0.010	ND
esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-linear alkyl esters (DHNUP)	-11-branched and 68515-	-42-4 %(w/w)	0.010	ND
Di-n-heptyl Phthalate (DnHpP)	3648-	21-3 %(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-7	6-4 %(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DME	EP) 117-8	• • •		ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
- iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised



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material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

Date: 25 Jun 2019

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

Phthalate(s)

Test Method: With reference to SGS in house method (SGS-CCL-TOP-042-41), analysis was performed by

LC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND

European Regulation (EC) No. 850/2004 and its amendment Regulation (EU) 2015/2030 -Chlorinated Paraffins -- Articles

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	002
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins) (MCCPs)	-	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, v-HBCDD)			

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.



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Test Item(s) CAS NO. <u>MDL</u> 002 Unit Perfluorooctanoic acid (PFOA) 335-67-1 mg/kg 0.01 ND Perfluorooctane Sulfonates (PFOS)^ mg/kg 0.01 ND

Notes:

(1) ^: PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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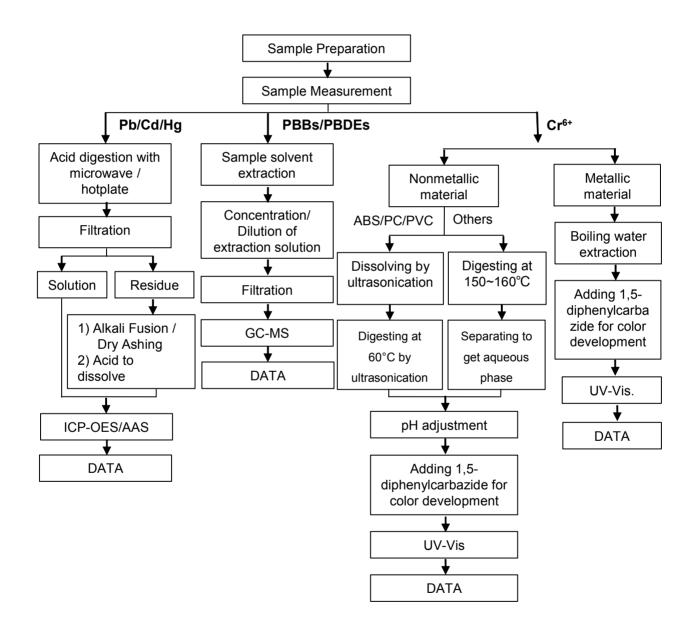
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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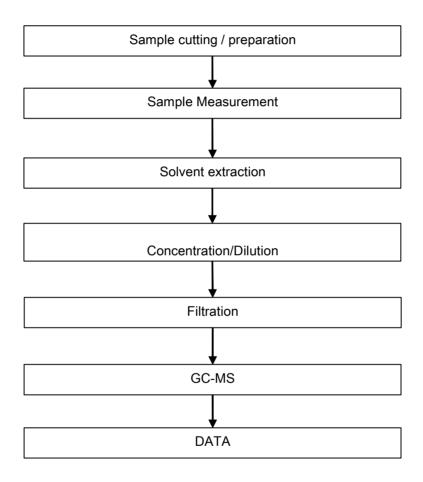
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Phthalates Testing Flow Chart





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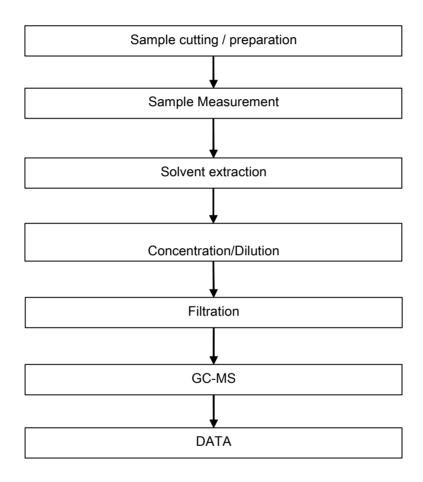
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HBCDD Testing Flow Chart





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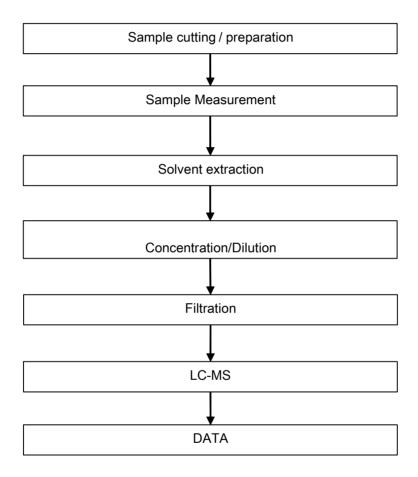
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PFOA / PFOS Testing Flow Chart





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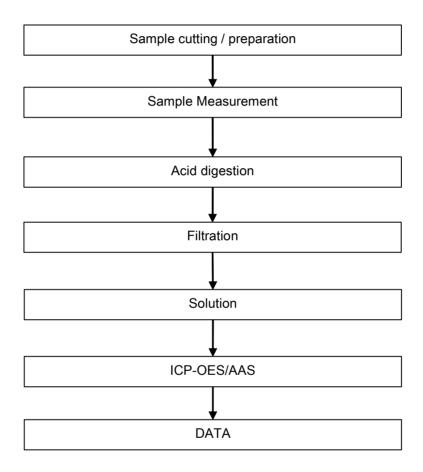
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Elementary Testing Flow Chart





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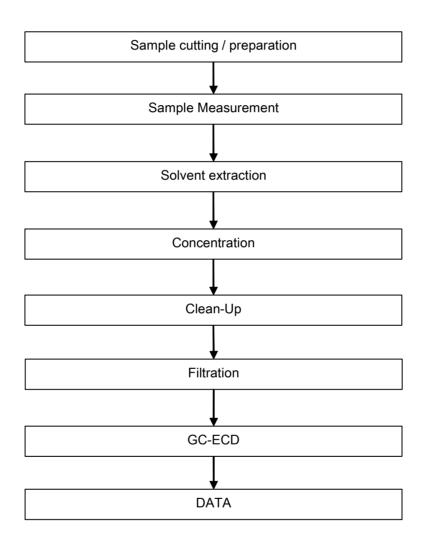
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SCCP/MCCP/LCCP Testing Flow Chart





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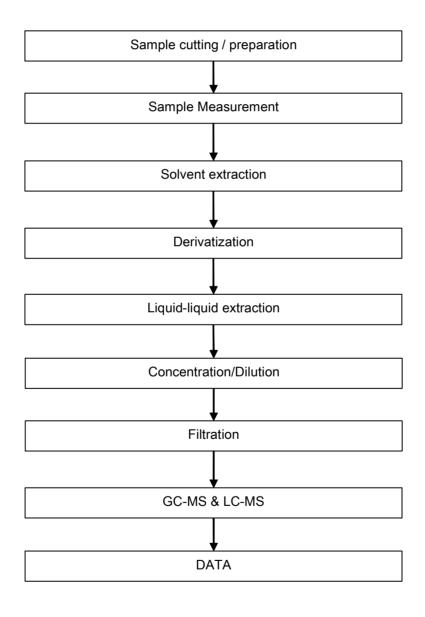
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TBBP-A Testing Flow Chart





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产品规格承认书

版本: A/1

产品名称	H无卤环保热缩套管	供应商代码	
规格/型号	所有系列	客户编号	

供應商確認(弘源碩電子材料有限公司)

拟制/日期	审核/日期
范松林 / 2012年1月15日	宋大春 / 2012年1月15日

客戶確認

客户批准/日期	

公司地址:深圳市寶安區沙井街道辦中心路匯盈商務大廈十三樓1301,1302室

邮 编: 518104

电 话: 0755-29308589

传 真: 0755-29308085

网 址: www.lyc-hys.com

1 主题内容与适用范围

本承认书规定了无卤环保阻燃型热收缩套管的技术要求、试验方法、检验规则以及包装等内容。本承认书适用于电线连接、焊点保护、电线端部处理、线束及电子元器件的防护和绝缘处理、健身器材零部件和钢结构表面防护、相关产品的防锈和防腐处理、电线和其它产品的标识等用途的无卤阻燃型热收缩套管。

2 引用标准

Standard for Extruded Electrical Tubing UL 224.

3 术语

3. 1 热收缩材料

以可塑性线型高聚物或高聚物合金为基材,用高能辐照方法或化学方法使聚合物分子链部分交 联成为网状结构获得弹性"记忆效应",经加热扩张至特定尺寸后冷却定型,使用时加热到适当温 度后自行收缩到扩张前的形状和尺寸,这种材料称为热收缩材料。

3. 2热收缩套管

将上述高聚物或高聚物合金通过挤出成型得到规定尺寸的管状中间产品,辐照(或化学)交联 后加热扩张,冷却定型得到的具有一定尺寸的管状产品成为热收缩套管。

3. 3 绿色 RSFR 无卤阻燃热收缩材料

在热收缩材料中添加一定量的不含卤素、重金属等对环境有害的阻燃剂,使之符合一定阻燃要求和环保要求,则成为绿色 RSFR 无卤阻燃热收缩材料。

4 技术要求

- 4. 1 使用条件
- 4. 1. 1 连续使用的环境温度: -55℃~125℃。
- 4. 1. 2 可在酸、碱条件下长期使用。
- 4.1.3 可在环保要求严格的条件下长期使用。
- 4. 2 表观要求
- 4. 2. 1 制品表面无明显划伤、凹凸不平、竹节状缺陷。
- 4. 2. 2 表面光洁、无油污、无积尘。
- 4. 2. 3 印字清晰、无重影、无多余墨迹、无印不全或打滑现象。
- 4. 3 热收缩性能
- 4. 3. 1 起始收缩温度 70 °C ; 超薄型完全收缩温度 110 °C ,普通型完全收缩温度 125 °C 。 按照 UL224 标准,完全收缩到位温度为 200 °C , 3 分钟 。
- 4. 3. 2 纵向收缩率不超过±5%
- 4. 4 材料的性能特性

材料的理化性能符合表1规定。

4. 5 收缩套管的产品尺寸

无卤阻燃型薄壁热收缩套管的产品尺寸符合表 2 规定,无卤阻燃型热收缩套管的产品尺寸符合表 3 规定。

4. 6 颜色

标准颜色:黑色、红色、蓝色、黄色、绿色、白色,其它颜色如紫色、灰色、棕色等可根据客户要求 定做。

4.7 使用方法

在使用过程中,为了保证热缩套管能完全收缩到位,使用强制鼓风式恒温烘箱,并将收缩温度 控制在125℃。特别注意,当把热缩套管放入烘箱过程中,烘箱温度有一下降趋势,要达到设定温度 需要一定的时间;同时,在烘箱内通过热空气循环流动使热缩套管达到最终收缩温度同样需要一定

的时间。因此,必须在烘箱实际温度达到设定温度并保持该温度3分钟左右,热缩套管才能完全收缩到位。

表 1 无卤阻燃型热收缩套管的性能特性

	Int. Ala Ha I —					
	性創		测试方法	性能指标		
物理性能	拉	拉伸强度/MPa GB/T1040		≥10.4		
	断裂伸长率/%		GB/T1040	≥200		
	热老化	后拉伸强度/MPa	UL224; 158℃×168hr	≥7.3		
	热老化	后断裂伸长率/%	UL224; 158℃×168hr	≥100		
		耐热冲击	UL224; 250°C×4hr	不发粘,不龟裂		
	抗冷弯曲		UL224; -30℃×1hr	不龟裂		
电气性能	耐压	300V	UL224	2500V 不击穿		
		600V	UL224	2500V 不击穿		
	击线	穿强度/KV/mm	GB/T1408	≥15		
	体积	R电阻率/Ω•cm	GB/T1410	\geqslant 1×10 ¹⁴		
化学性能	铜安定性				UL224; 158℃×168hr	PASS
	抗腐蚀性		抗腐蚀性 UL224; 158℃×168hr		UL224; 158℃×168hr	PASS
		阻燃性	UL224	VW-1		

表 2 H-CB 管 (无卤阻燃型薄壁热收缩套管)的产品尺寸

规格	收缩前尺	寸 (mm)	收缩后月	尺寸 (mm)	旧包装	新包裝	适用范围
(mm)	内径	壁厚	内径	壁厚	米/盘	米/盘	(mm)
Ф 0. 6СВ	0.90 ± 0.2	0.13 ± 0.05	≤ 0. 40	0.20 ± 0.10	200	400	$0.4 \sim 0.7$
Ф 0. 8СВ	1.10 ± 0.2	0.13 ± 0.05	≤ 0.50	0.20 ± 0.10	200	400	0.6~0.8
Ф1.0СВ	1.40 ± 0.2	0.13 ± 0.05	≤ 0.65	0.20 ± 0.10	200	400	0.7~1.0
Ф1.5СВ	1.90 ± 0.2	0.13 ± 0.05	≤ 0.85	0.20 ± 0.10	200	400	$0.9 \sim 1.4$
Ф2.0СВ	2.40 ± 0.2	0.13 ± 0.05	≤1.00	0.22 ± 0.10	200	400	$1.1 \sim 1.8$
Ф2.5СВ	2.90 ± 0.2	0.13 ± 0.05	≤1.30	0.25 ± 0.10	200	400	1.4~2.3
Ф3.0СВ	3.40 ± 0.2	0.13 ± 0.05	≤ 1.50	0.28 ± 0.10	200	400	$1.6 \sim 2.7$
Ф 3. 5СВ	3.90 ± 0.2	0.13 ± 0.05	≤1.80	0.28 ± 0.10	200	400	$1.9 \sim 3.2$
Ф 4. ОСВ	4.40 ± 0.2	0.15 ± 0.05	≤ 2.00	0.30 ± 0.10	200	400	$2.1 \sim 3.6$
Ф4.5СВ	4.90 ± 0.2	0.15 ± 0.05	≤ 2. 30	0.30 ± 0.10	100	200	2.4~4.0
Ф 5. ОСВ	5.50 ± 0.2	0.15 ± 0.05	≤ 2.5	0.32 ± 0.10	100	200	$2.6 \sim 4.5$
Ф 6. ОСВ	6.50 ± 0.2	0.15 ± 0.05	≤ 3.0	0.32 ± 0.10	100	200	3.1~5.4
Ф 7СВ	7.50 \pm 0.3	0.15 ± 0.05	≤ 3.5	0.32 ± 0.10	200	200	3.7~6.3
Ф8СВ	8.50 ± 0.3	0.15 ± 0.05	≤ 4. 0	0.32 ± 0.10	200	200	4.2~7.2
Ф 9СВ	9.50 ± 0.3	0.15 ± 0.05	≤ 4. 5	0.35 ± 0.10	200	200	4.7~8.0
Ф 10СВ	10.5 \pm 0.3	0.15 ± 0.05	≤ 5. 0	0.35 ± 0.10	200	200	5.2~9.0

Ф11СВ	11.5±0.3	0.18 ± 0.05	≤ 5. 5	0.40 ± 0.10	200	200	5.7~10.0
Ф 12СВ	12.5 ± 0.3	0.20 ± 0.05	≤6. 0	0.40 ± 0.10	200	200	6.2~11.0
Ф13СВ	13.5 ± 0.3	0.20 ± 0.05	≤ 6. 5	0.40 ± 0.10	200	200	6.7~12.0
Ф 14СВ	14.5 ± 0.3	0.20 ± 0.05	≤ 7. 0	0.40 ± 0.10	200	200	7.3~13.0
Ф 15СВ	15.5 ± 0.4	0.20 ± 0.05	≤ 7. 5	0.40 ± 0.10	200	200	7.8~14.0
Ф 16СВ	16.5 ± 0.4	0.22 ± 0.05	≪8.0	0.40 ± 0.10	200	200	8.3~15.8
Ф17СВ	17.5 ± 0.4	0.22 ± 0.05	≪8.5	0.40 ± 0.10	200	200	8.8~16.0
Ф 18СВ	18.5 ± 0.4	0.22 ± 0.05	≤ 9. 0	0.42 ± 0.10	200	200	9.3~17.0
Ф 20СВ	20.5 ± 0.5	0.25 ± 0.05	≤ 10.0	0.45 ± 0.10	200	200	10.5~19.0
Ф 22СВ	22.5 ± 0.5	0.25 ± 0.05	≤11.0	0.45 ± 0.10	200	200	$11.5\sim20.5$
Ф 25СВ	25.5 ± 0.5	0.25 ± 0.05	≤ 12. 5	0.45 ± 0.10	100	100	13.0~24.0

E203950 **(Σ)** WOER RSFR(CB) TUBE 125°C VW-1 H (Φ 9CB)

表3 H管(无卤阻燃型热收缩套管)的产品尺寸要求

规格	收缩前尺	收缩前尺寸(mm)		收缩后尺寸 (mm)		新包装	适用范围 (mm)
(mm)	 内径	壁厚	最大内径	壁厚	米/盘	米/盘	
Ф0.6	0.9 ± 0.2	至序 0.18±0.05	取入内在 ≤0.40	<u> </u>	200	400	$\frac{\text{(mm)}}{0.4 \sim 0.7}$
Ф0.8	1.1 ± 0.2	0.18 ± 0.05	≤0.50	0.33 ± 0.10	200	400	0.6~0.8
Ф1.0	1.5 ± 0.2	0.20 ± 0.05	≤0.65	0.36 ± 0.10	200	400	0.75~0.9
Ф1.5	2.0 ± 0.2	0.20 ± 0.05	≤0.85	0.36 ± 0.10	200	400	0.95~1.4
Ф2.0	2.5 ± 0.2	0.20 ± 0.05	≤1.00	0.45 ± 0.10	200	400	1.1~1.8
Ф2.5	3.0 ± 0.2	0.20 ± 0.05	≤1.30	0.45 ± 0.10	200	400	1.35~2.3
Ф3.0	3.5 ± 0.2	0.23 ± 0.05	≤1.50	0.45 ± 0.10	200	400	1.6~2.7
Ф3.5	4.0 ± 0.2	0.23 ± 0.05	≤1.80	0.45 ± 0.10	200	400	1.85~3.2
Ф4.0	4.5 ± 0.2	0.25 ± 0.05	€2.00	0.45 ± 0.10	200	400	2.1~3.6
Ф4.5	5.0 ± 0.2	0.28 ± 0.05	€2.30	0.56 ± 0.10	100	200	2.35~4.0
Ф5.0	5.5 ± 0.2	0.28 ± 0.05	≤2.50	0.56 ± 0.10	100	200	2.6~4.5
Ф6.0	6.5 \pm 0.2	0.28 ± 0.05	≤3.00	0.56 ± 0.10	100	200	3.1~5.4
Ф7.0	7.5 ± 0.3	0.30 ± 0.05	≤3.50	0.56 ± 0.10	100	100	3.7~6.3
Ф8.0	8.5 ± 0.3	0.30 ± 0.08	≤ 4.00	0.56 ± 0.10	100	100	4.2~7.2
Ф9.0	9.5 ± 0.3	0.30 ± 0.08	≤ 4. 50	0.56 ± 0.10	100	100	4.7~8.0
Ф10	10.5 \pm 0.3	0.30 ± 0.08	≤ 5. 00	0.56 ± 0.10	100	100	5. 2~9. 0
Ф11	11.5 \pm 0.3	0.30 ± 0.08	≤ 5. 50	0.56 ± 0.10	100	100	5.7~10
Ф12	12.5 \pm 0.3	0.30 ± 0.08	≤6.00	0.56 ± 0.10	100	100	6.2~11
Ф13	13.5 ± 0.3	0.35 ± 0.08	≤ 6. 50	0.56 ± 0.10	100	100	6.7~12
Ф14	14.5 ± 0.3	0.35 ± 0.10	€7.00	0.70 ± 0.10	100	100	7.3~13
Ф15	15. 5 ± 0.4	0.35 ± 0.10	≤ 7. 50	0.70 ± 0.10	100	100	7.8~14

规格 (mm)	收缩前尺寸 (mm)		收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
Ф16	16.5 \pm 0.4	0.35 ± 0.10	≤8.00	0.70 ± 0.10	100	100	8.3~15
Ф17	17.5 ± 0.4	0.35 ± 0.10	≤8.50	0.70 ± 0.10	100	100	8.8~16
Ф18	19.0 ± 0.5	0.35 ± 0.10	≤9.00	0.70 ± 0.10	100	100	9.3~17
Ф20	22.0 ± 0.5	0.40 ± 0.10	≤10.00	0.83 ± 0.10	100	100	10.4~19
Ф22	24.0 ± 0.5	0.40 ± 0.12	≤11.00	0.83 ± 0.15	100	100	11.4~21
Ф25	26.0 ± 0.5	0.45 ± 0.12	≤12.50	0.90 ± 0.15	50	50	12.8~24
Ф28	29.0 ± 0.5	0.45 ± 0.12	≤14.00	0.90 ± 0.15	50	50	14.4~29
Ф30	31.5 ± 1.0	0.45 ± 0.12	≤15.00	1.00 ± 0.15	50	50	16~29
Ф35	36.5 ± 1.0	0.45 ± 0.12	≤ 17. 50	1.00 ± 0.15	50	50	18~34
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤ 20. 00	1.00 ± 0.15	50	50	21~39
Ф 45	46.5 ± 1.0	0.50 ± 0.15	≤22. 50	1.00 ± 0.20	25	25	23.5~44
Ф 50	≥50	0.50 ± 0.15	≤ 25. 00	1.10 ± 0.20	25	25	26~49

E203950 WOER RSFR-H TUBE 125°C VW-1 H (φ9)

注: Φ30 及以上规格产品默认为 G 管(环保性能符合欧盟 RoHS 2002/95/EC 标准)。如果客户需 H 无卤热缩套管,须在订单上注明。

4.8 环境物质

本承认书承诺不使用以下物质,四大重金属、多溴联苯(PBB)、多溴联苯醚(PBDE)、卤素等通过 SGS 检测。无卤阻燃型热收缩套管的环保特性列于表 4。

- 1. 多氯化联苯(PCB)类
- 2. 多氯化萘 (PCN) 类
- 3. 氯化石蜡
- 4. 灭蚁灵 (Mirex)
- 5. 其它有机氯化合物
- 6. 有机溴化合物-多溴联苯 (PBB)
- 7. 有机溴化合物-多溴联苯醚 (PBDE)
- 8. 有机锡化合物(三丁基锡化合物和三苯基锡化合物)
- 9. 石棉
- 10. 偶氮化合物
- 11. 甲醛

表 4 无卤阻燃型热收缩套管的环保特性

环境物质	含量	测试方法
氟 (F)	≤200PPM	EN 14582 Method B
氯 (C1)	≤900ppm	EN 14582 Method B
溴 (Br)	≤900ppm	EN 14582 Method B
碘 (I)	≤200PPM	EN 14582 Method B

镉 (Cd)	≤5ppm	IEC 62321
铅 (Pb)	≤90ppm	IEC 62321
铬 (Cr ⁶⁺)	≤5ppm	IEC 62321
汞 (Hg)	≤5ppm	IEC 62321
砷 (As)	≤50ppm	EPA 3052
钡 (Ba)	≤1000ppm	EPA 3052
锑(Sb)	≤60ppm	EPA 3052
硒 (Se)	≤25ppm	EPA 3052

备注: 氯(C1) + 溴(Br) <1500ppm

5. 材质证明书

材质证明书

沃尔核材股份有限公司无卤环保型 RSFR-H 热缩套管是一种阻燃型的热收缩套管,组成材料为聚烯烃加适量阻燃剂和助剂。产品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr⁶⁺)、多溴联苯(PBB)、多溴联苯醚(PBDE)等环境物质含量符合日本 SONY-SS-00259 和欧盟 RoHS 2002/95/EC 指令环保要求。其主要成份如下:

原料名称			使用目的	含量	供应商	CAS. NO.
中文	英文	分子式				
聚烯烃	Polyolefin	(CH ₂ CH ₂) n	主剂	50%	北京有机	9002-88-4
氢氧化镁	Magnesium	$Mg(OH)_2$	阻燃剂	35%	锦昊辉	1309-42-8
	Hydroxide					
磷系阻燃剂	Phosphorus	(NH_4PO_3) n	阻燃剂	10%	上海海以	7723-14-0
色母粒	Pigment	色母+填充剂	着色剂	5%	华万彩	
油墨	Printing Ink		印字		上海捷信	

6. 技术资料

- (1) UL/cUL 证书
- (2) ISO9001 证书
- (3) IS014001 证书
- (4) ISO/TS16949 证书
- (5) SGS/ITS/CTI 检测报告

弘源碩電子材料有限公司

二零一二年一月十五日



ONLINE CERTIFICATIONS DIRECTORY

YDPU2.E203950 Tubing, Extruded Insulating - Component

Page Bottom

Tubing, Extruded Insulating - Component

See General Information for Tubing, Extruded Insulating - Component

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD

E203950

XINWEI INDUSTRIAL PARK, WOER MANSION NANSHAN DISTRICT, XILI SHENZHEN, GUANGDONG 518052 CHINA

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance C	VW-1 Rated #
Flexible Heat-Shrinkable Polyolefin Tubing					
RSFR	600	125	All except Clear	None	\$
WKZM-x-yz	600	125	White	None	No
RSFR-H	600	125	All except Clear	None	Yes
RSFR(CB)	300	125	All except Clear	None	Yes
Not Heat-Shrinka	ble PTFE	Tubing	-		
WF	600	200	Natural	None	Yes
Heat-Shrinkable	Polyolefi	n Tubing with	Meltable Liner	_	
SBRS	600	125	All except Clear	None	Yes
Not Heat-Shrinkable Standard Wall Silicone Tubing					
WST-600	600	150	White	None	@

- x-yz x represents tubing expanded ID, yz represents any alpha and/or numeric combination for internal client code.
- # Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.
- @ VW-1 rated for internal diameter sizes 6.50 15.00 mm only.
- \$ VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container.

Last Updated on 2008-04-30

Questions?

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Test Report (SVHC)

No. CANEC1822723201

Date: 09 Nov 2018

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SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD. WOER MANSION, LANJING NORTH ROAD, PINGSHAN INDUSTRIAL ZONE, LONGGANG

DISTRICT, SHENZHEN

CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PLEASE SEE REMARK

CP18-059386 - SZ SGS Job No.:

Date of Sample Received: 02 Nov 2018

Testing Period: 02 Nov 2018 - 08 Nov 2018

Test Requested: As requested by client, SVHC screening is performed according to:

> (i) One hundred and ninety one (191) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA)

on Sep 4, 2018 regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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Test Report (SVHC)

No. CANEC1822723201 Date: 09 Nov 2018 Page 2 of 19

Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description**

CAN18-227232.001 SN₁ Black tube w/whtie printing

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9./ = Substances in the Consultation List of SVHC.



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
٧	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
1	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
1	193	Benzo[k]fluoranthene	207-08-9	0.050
1	194	Fluoranthene	206-44-0	0.050
1	195	Phenanthrene	85-01-8	0.050
1	196	Pyrene	129-00-0	0.050
/	197	Undecafluorohexanoic acid and its ammonium salt	307-24-4, 21615-47-4	0.050



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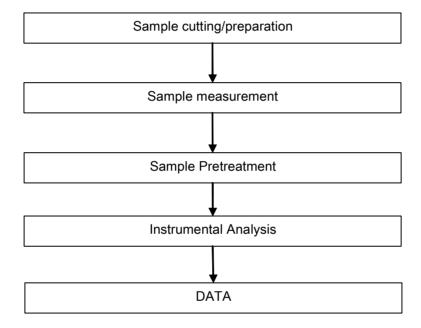
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ATTACHMENTS

SVHC Testing Flow Chart





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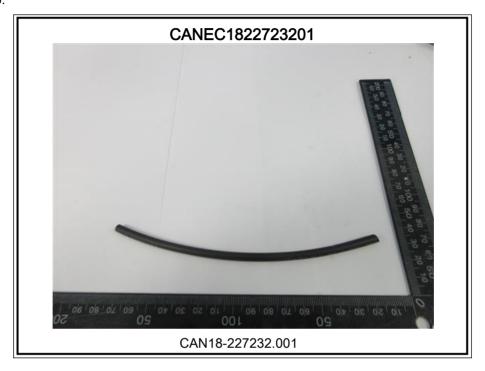
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Report No. A2190096126101003R1

Applicant SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Address WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREER, PINGSHAN

DISTRICT, SHENZHEN, GUANGDONG.

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PE masterbatch- Black

Sample Received Date Apr. 26, 2019

Testing Period Apr. 26, 2019 to Apr. 29, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

> Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Crit Qin

Hill Zheng

Pori Xia

Date

Reviewed by

May 17, 2019

No. R179757340

Technical Manager

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190096126101003R1

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Report No. A2190096126101003R1 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	36 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190096126101003R1

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL				
Phthalates (DBP, BBP, DEHP, DIBP)						
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg				
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg				
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg				
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg				

Sample/Part Description

Black plastic grains

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note:

This testing report revised "Sample Name" based on the original report of No. A2190096126101003. This testing report displaces the original one which was invalid since the date of this testing report released.

37

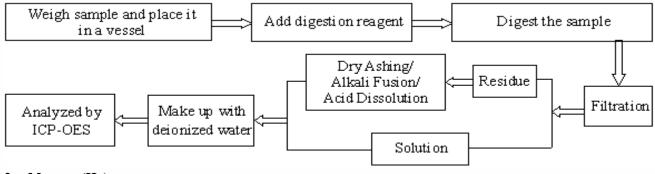


Report No. A2190096126101003R1

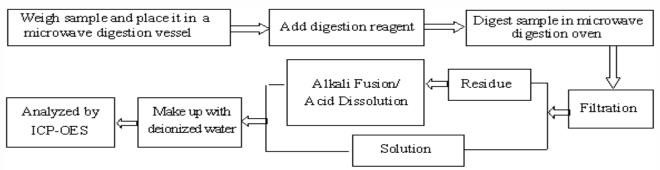
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



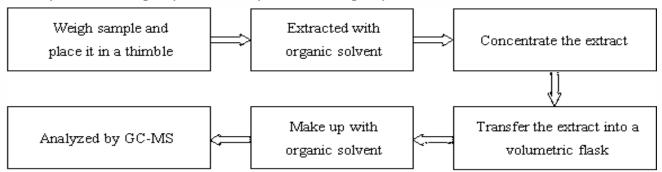
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



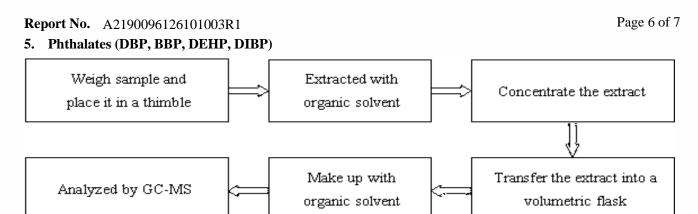
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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Report No. A2190096126101003R1

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.



Test Report No. CANEC1911780603 Date: 26 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: HALOGEN FREE

WHITE INK

SGS Job No.: CP19-032627 - SZ

Model No.: I-TPE-01

Client Ref. Info.: I-PE-01; I-TPE-01;I-TPR-01;I-PE-01; I-PPE-01;I-PP-01;I-TPU-01;I-RU-01

Date of Sample Received: 19 Jun 2019

Testing Period: 19 Jun 2019 - 26 Jun 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 26 Jun 2019 No. CANEC1911780603 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-117806.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19117806	0603 Date: 26 Jun 2019		Page 3 of 6	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

Remark: The result(s) shown is/are of the total weight of dried sample.



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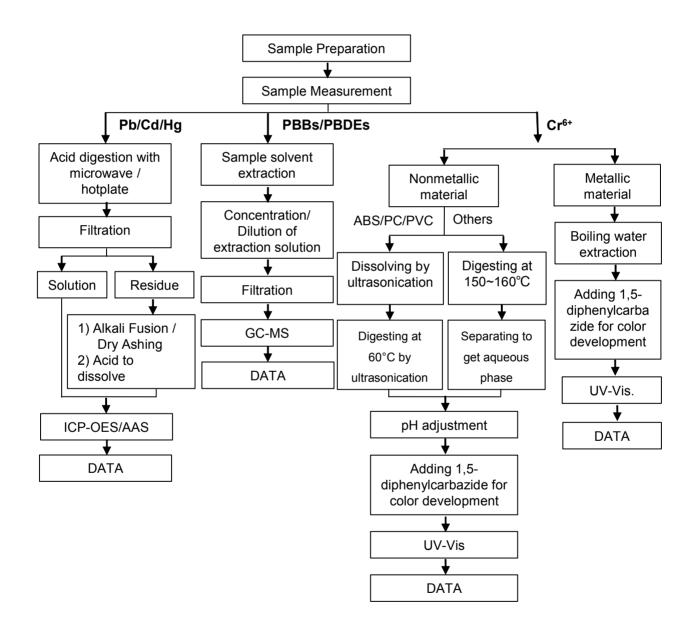
Date: 26 Jun 2019

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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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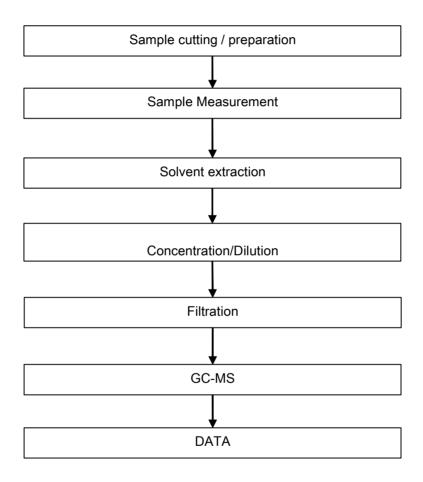
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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1911780603

Page 6 of 6

Date: 26 Jun 2019

Sample photo:



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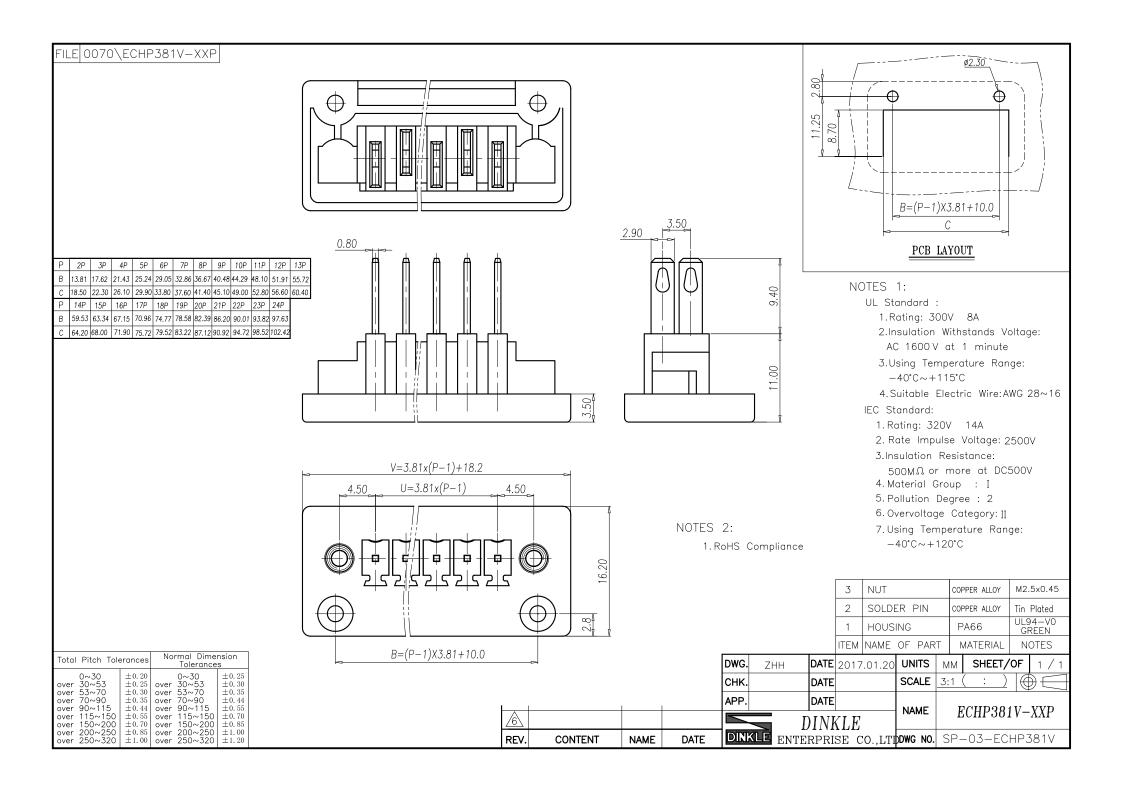
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Test Report No. SHAEC1919684903 Date: 05 Sep 2019 Page 1 of 11

DINKLE ELECTRIC MACHINERY (CHINA) CO.,LTD

NO.258, XINGPU MID ROAD, SHIPU BUSINESS ADMINISTRATION ESTATE, QIANDENG TOWN, KUNSHAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: PA66 DP A30SFN30+DUS025 (GREEN)

SGS Job No.: SP19-030244 - SH

Supplier: **LANXESS** Date of Sample Received: 03 Sep 2019

Testing Period: 03 Sep 2019 - 05 Sep 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dora Hu

Approved Signatory



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Test Report Date: 05 Sep 2019 Page 2 of 11 No. SHAEC1919684903

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SHA19-196849.002 SN₁ Green plastic grains

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SHAEC1919684	903 Date: 05 Sep 2019		Page 3 of 11	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Red Phosphorus

Test Method: SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Pyrolysis-GC/MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Red Phosphorus	mg/kg	500	ND

Notes:

For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

Hexabromocyclododecane (HBCDD)



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Test Report No. SHAEC1919684903 Date: 05 Sep 2019 Page 4 of 11

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s) Unit **MDL** 002 Hexabromocyclododecane (HBCDD) 10 ND mg/kg



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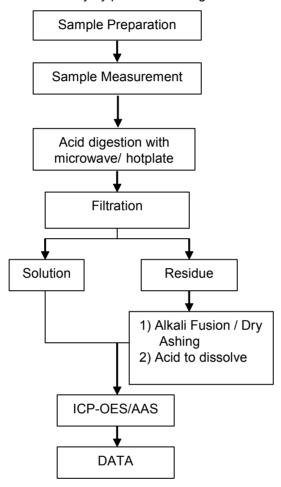
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Date: 05 Sep 2019

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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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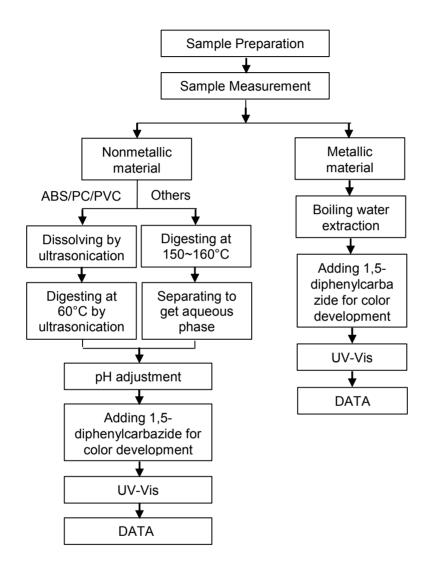
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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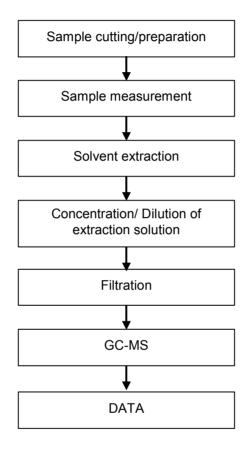


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Date: 05 Sep 2019

PBBs/PBDEs Testing Flow Chart





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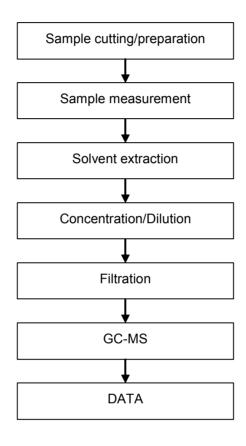


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Date: 05 Sep 2019

Phthalates Testing Flow Chart





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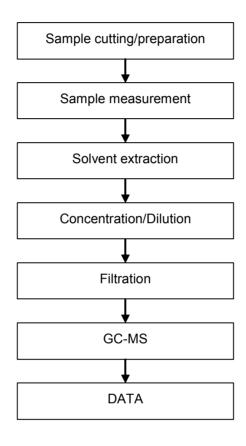


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HBCDD Testing Flow Chart





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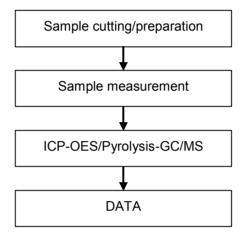


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Red Phosphorus Testing Flow Chart





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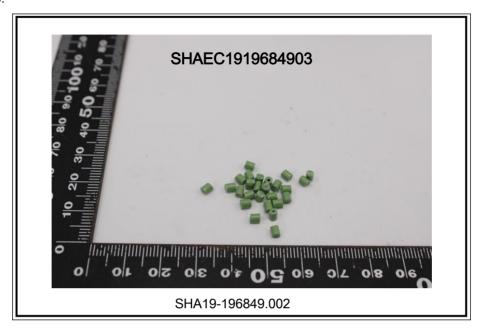


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Sample photo:



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Report No. A2180247928101002

Applicant DONGGUAN CITY NOIMIA INDUSTRIAL CO., LTD

Address DONGGUAN CHANGAN TOWN MANSION HILLOCK FORTUNA'S UNIVERSAL

INDUSTRIAL CITY ROAD F BUILDING

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name C3604 Part No. C3604

Sample Received Date Dec. 14, 2018

Testing Period Dec. 14, 2018 to Dec. 18, 2018

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl

Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted

sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by Fliv There

Hill Zheng

Technical Manager

Center Resport mediational Group Co., Ltd.

Reviewed by

Date

Pori Xia

Dec. 18, 2018

No. R158921180

CTI Building, No.4, Liuxian 3rd road, Xin'an Street, Bao'an District, Shenzhen, P.R.China



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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	32984 mg/kg	2 mg/kg
Cadmium(Cd)	33 mg/kg	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. ▼	0.10 μg/cm ² (LOQ)
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Sample/Part Description

Golden metal

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \ \mu g/cm^2$
- - $^{\blacktriangledown}$ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.

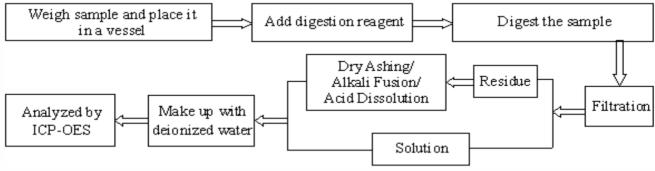
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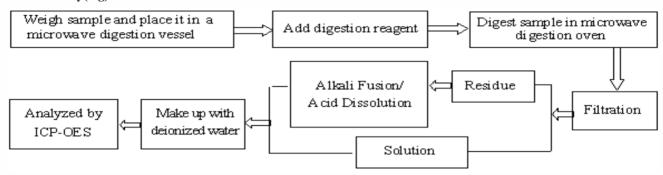
Report No. A2180247928101002 Page 5 of 7

Test Process

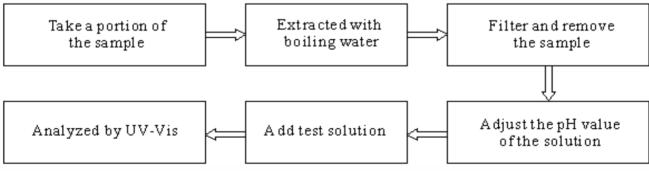
1. Lead(Pb), Cadmium(Cd)



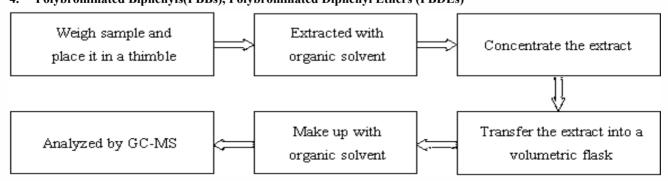
2. Mercury(Hg)



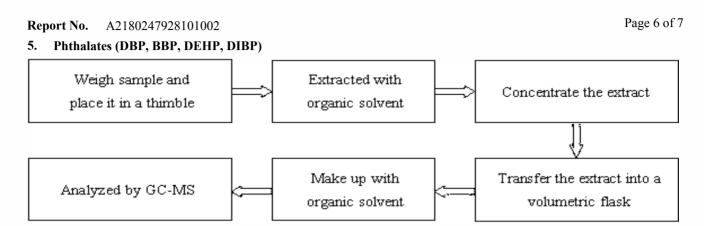
3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)









Report No. A2180247928101002

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Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalidated without approval signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the autenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if genrated), the Chinese version shall prevail.



Test Report No. CANML1906064029 Date: 23 Apr 2019 Page 1 of 12

DONG GUAN SHU PENG METALLIC PRODUCTS CO., LTD
BUILDING A NO.6 DAJIN ROAD,XIXI DAJIN INDUSTRIAL PARK,LIAOBU TOWN,DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: C1100

SGS Job No. : GZIN1904016655PC - GZ

Internal Reference No.: GZIN1904016380ML

Date of Sample Received: 11 Apr 2019

Testing Period: 11 Apr 2019 - 17 Apr 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Annie Ren

Annie Ren Approved Signatory



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No. CANML1906064029

Page 2 of 12

Date: 23 Apr 2019

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-060640.002 Copper-colored metal sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	3
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANML19060640	029	Date: 2	23 Apr 2019	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.



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Test Item(s) Unit **MDL** 002 Beryllium (Be) mg/kg 5 ND

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	002
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
- iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised



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material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

Date: 23 Apr 2019

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	mg/kg	10	ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Remark: Results & photo(s) of this report refer to test report CANML1906064021.



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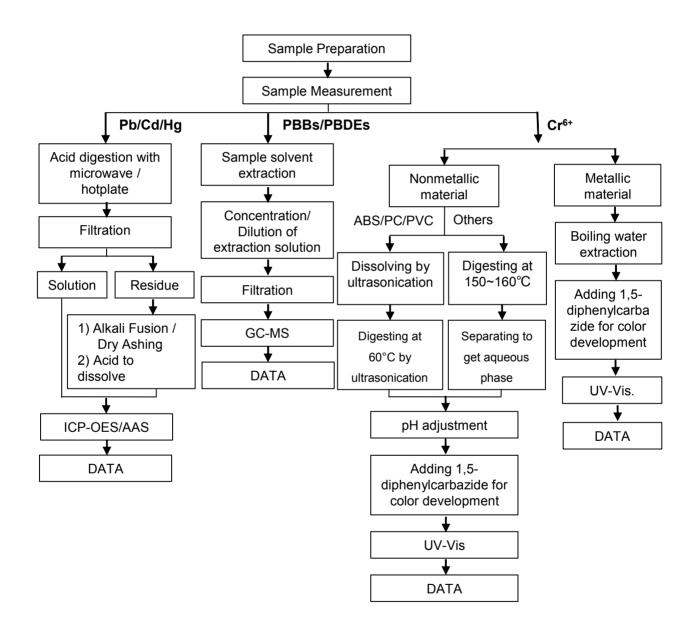
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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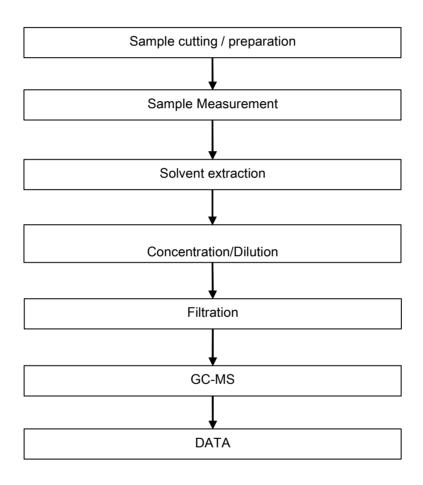
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Phthalates Testing Flow Chart





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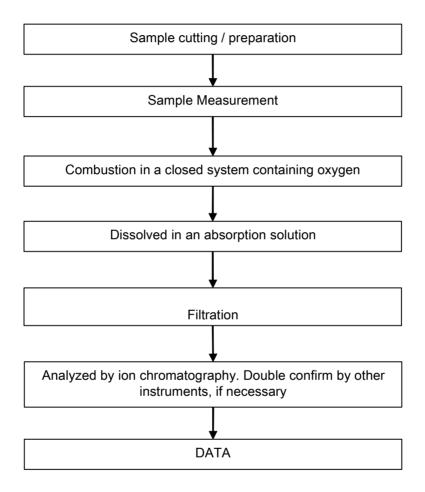
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Halogen Testing Flow Chart





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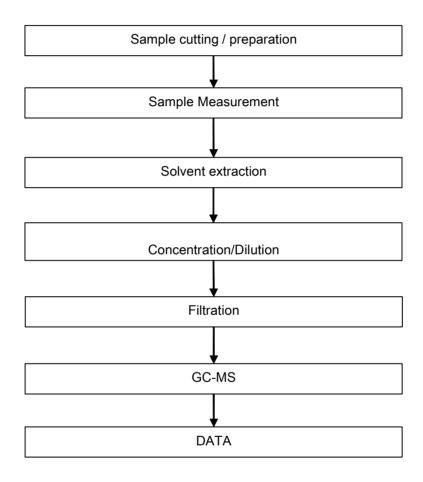
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HBCDD Testing Flow Chart





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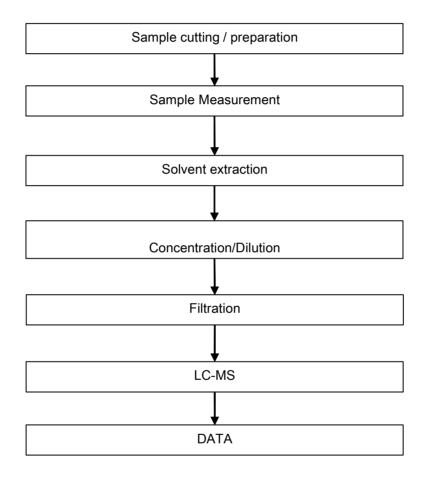
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PFOA / PFOS Testing Flow Chart





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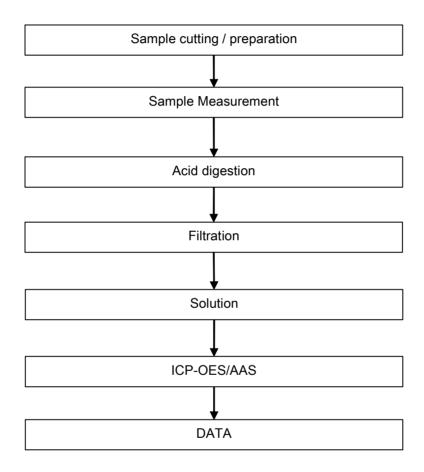
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Elementary Testing Flow Chart





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Date: 23 Apr 2019

Sample photo:



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Test Report No. CANML1903212301 Date: 08 Mar 2019 Page 1 of 6

DONGGUAN SHENGJI HARDWARE PRODUCTS CO., LTD
DONGGUAN HUMEN TOWN SHAJIAO COMMUNITY PHOENIX MOUNTAIN INDUSTRIAL ZONE NO. 1

The following sample(s) was/were submitted and identified on behalf of the clients as: Tin PLating

SGS Job No.: SZIN1903002431PC - SZ

Date of Sample Received: 05 Mar 2019

Testing Period: 05 Mar 2019 - 08 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Annie Ren

Annie Ren Approved Signatory



CANMI 190321230



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Test Report No. CANML1903212301 Date: 08 Mar 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-032123.001 Silvery metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 83071443.

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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 f (86–20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANML19032123	801	Date: 0)8 Mar 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	ma/ka	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. CANML1903212301

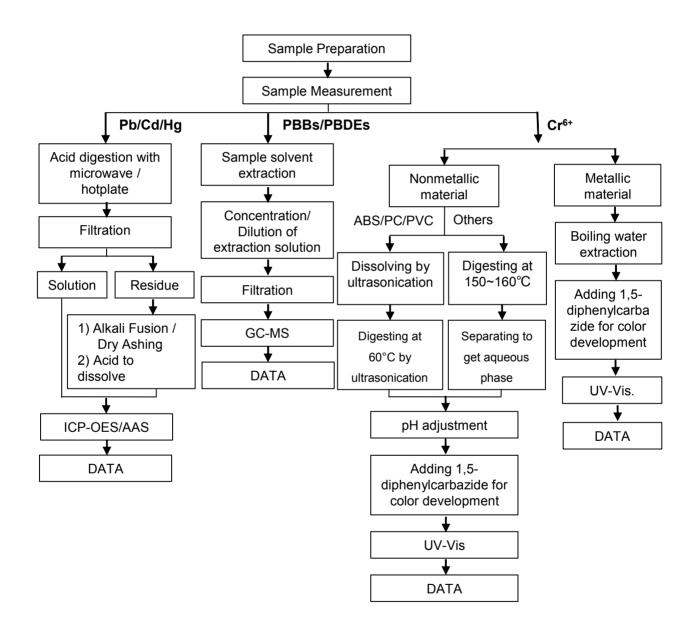
Page 4 of 6

Date: 08 Mar 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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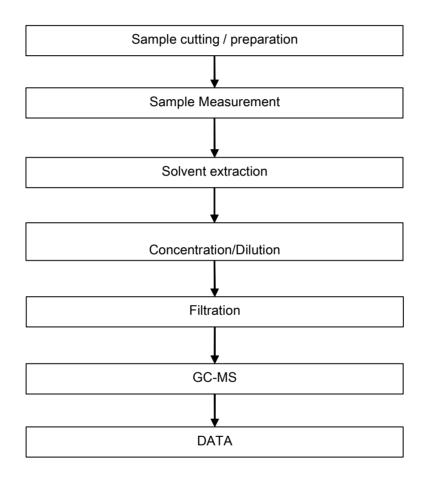
No. CANML1903212301

Page 5 of 6

Date: 08 Mar 2019

ATTACHMENTS

Phthalates Testing Flow Chart





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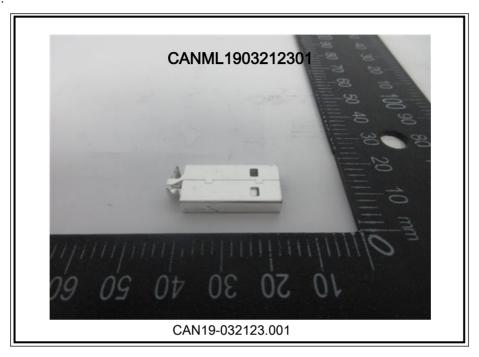


No. CANML1903212301

Page 6 of 6

Date: 08 Mar 2019

Sample photo:



SGS authenticate the photo on original report only





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不使用限用物質聲明書

Non-use of restricted substances statement



OD4-089 Rev.B2

請填寫相關資訊

Please fill in the relevant information: 公司名稱 Company name: 飛偉科技有限公司 公司負責人 Company Responsible Person: 王俊偉 立書人 Declarant: 王俊偉 立書人職稱 Declarant's Title: 負責人 本聲明書生效日期 Effective Date of this Declaration: 2017/08/03 (公司章 Company Stamp) 請勾選本聲明書適用範圍 Please Select the Scope of this Declaration: 提供給研揚的全部產品 All Products provided to AAEON 研揚糾號 AAEON Part Number: (負責人章 Responsible Person Chop) 〗原廠料號 Manufacturer Part Number∶ 飛偉科技有限公司 (填寫公司名稱) 響應全球綠色環保法規或其他法律,保證如下事項:

- -、產品符合歐盟 RoHS (2011/65/EU)* 規範。 The product complies with EU RoHS (2011/65/EU) norms.
 - i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863, 將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中,限值仍為 1000ppm,從 2019 年 7 月 22 日起需符合此要 求,作為供應商,如果有包含上述物質,務必主動通知研揚。

(Fill in Company name) Response to global green

environmental protection regulations or other laws, guarantee the following matters:

EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from 22 July 2019 for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

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Non-use of restricted substances statement

OD4-089 Rev.B2

ii. 當作為包材類的材料,也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU) When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)

Note: Pb+Cd+Hg+Cr⁶⁺ <100 ppm

iii. 若為電池零件,也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)

Note: Cd<20ppm; Hg <5ppm

二、產品符合衝突金屬(Conflict Metal)規範,並確認銷售產品若有含錫、鉭、鎢、金這四種礦產,來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin tantalum tungsten gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo Uganda San Tanzania Rwanda Angola, Zambia, Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範,

高關注物質(SVHC),不超過 0.1%上限,以重量計算。

備註:請參照歐盟化學總署(ECHA)網站,最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

Note: Please check ECHA website for latest SVHC list: https://echa.europa.eu/candidate-list-table

立書人提供給研揚的所有文件(含測試報告、聲明書、調查表等文件),均正確屬實並且完整。 All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.

如有違背此保證聲明書的規定,	飛偉科技有限公司	(填寫公司名稱) 將承擔相關法律責任
並賠償研揚所受損害。		
If violates any provision of this D	Declaration,	(Fill in Company name)
shall take legal responsibilities a	and compensate AAE	ON for damages and losses caused by
this violation		

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承認書 APPROVAL SHEET

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1070

客戶料號

Cus. P/N: 1701100180

規格敘述

DESCRIPTION: COM CABLE 150mm

審 核	業 務	品 保	工程
Approved By	Sales Dept	QA Dept	Engineering Dept
王俊偉	張全生	劉江華	楊仁貴

客戶簽章

Customer Signature:

審 核	核 對	檢 驗
Approved By	Checked By	Tested By

飛偉科技有限公司 FLYINGWAY TECH CO., LTD

Address:新北市永和區中和路345號7F-4

TEL:02-22311313 FAX:02-22311020

CONTACT: Chino Wang

E-Mail:chino@flyingwaytech.com.tw

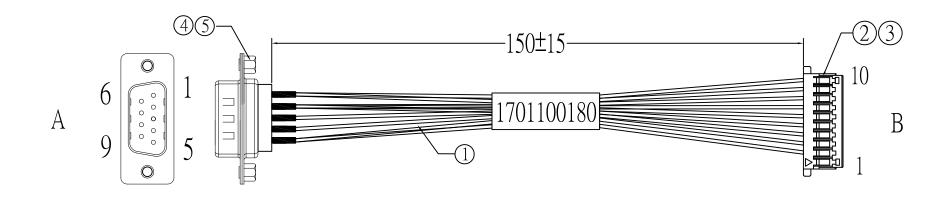
Cellphone: 0983588528

DATE: 2020/01/09

RoHS Compliant

Pin對照表

A	1	2	3	4	5	6	7	8	9
В	10	9	8	7	6	5	4	3	2
顏色	黑	棕	紅	橙	黄	綠	藍	紫	白



5	套管:Φ1.0*L=10mm 黑色厚壁	9	pcs	WORE或同級品
4	DB頭:9P 公頭 後鉚螺母 二排 焊接式 黑膠芯	1	pcs	超端或同級品
3	TER:11002TOP-2E	9	pcs	JCTC或同級品
2	HSG:11002H00-10P	1	pcs	JCTC或同級品
1	線村:UL1571#28 OD=0.8 黑;棕;紅:橙;黃;綠;藍;紫;白各1 L=155*2.0T*1.6	共9	pcs	瑞興或同級品
NO	品 名 規 格	數量	單位	生產廠商

客戶工程師	Jimmy	
版次	變更內容	變更日期
A	新發行	2017/09/06
В	修改客戶料號	2017/09/12
C	修改線長180>150mm	2017/11/03
D	修改DB頭:9P為焊接式	2020/01/06

能 律 科 技 有 限 公 司 TEL:02-2231-1313 FAX:02-2231-1020 E-MAIL:chino@flyingwaytech.com.tw

TITLE: COM CABLE 150mm

FW P/N: FWAA-1070

CUS. P/N: 1701100180

REV: D DWG BY: Silvia CHECKED BY: Chino DATE: 2020/01/06

了 UL 1571 HOOK-UP WIRE 80°C 30V 環保 SR-PVC 電子線

UL Subject 758

說明:

●導體使用單條或絞線最小至 50AWG 裸鋼或鍍錫銅

●環保 SR-PVC 絕緣

●額定溫度:80℃,額定電壓:30Volts

●可通過 UL VW-1 垂直型耐燃測試。

UL FILE NO:E108485

應用:

電子設備二次迴路中內部連接用線

Applications:

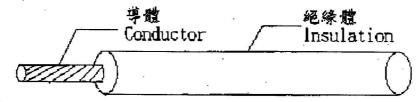
•Internal wiring in electronic equipments

Product Description:

- Tinned, annealed, attended or solid copper conductor, MIN,50AWG
- Lead FreeSR- PVC insulation.
- •Rated temperature: 80°C, Rated voltage: 30 volts.
- Uniform thickness of wire to ensure easy stripping and cutting
- Passes UL VW-1 vertical flame test.

構造及電氣性能

stucture & electric properties(UL STANDARD 758:外徑 0.70mm 以下不印字)



	額	定	導	蔻	絕緣	禮		最大導體	最小絕緣	絕緣耐览
	Ran			ductor		Insulation		阻抗	阻抗	壓(VAC/min)
UL -	溫度	電 壓	線號		厚度	外徑	公差值 Tolerance	Maximum	Minimum.	Insulation
1571	Temp	Voltage	AWG	NQ./mm	Thickness	O.D	. Mm	Conductor	Insulation	Potential
	°C	V			mm	mm		Resistance. Ω/km	Resistance MΩ/km	Strength
			-24	7/0.060	0.20	0.60				
	2		34					728	į	17
10.5			32	7/0.080	0.20	0.65		703		
多芯線 Strand	*		30	7/0.100	0.20	0.70		397		
多芯線 Stranded			28	7/0.127	0.20	0.80	es .	248	, .	; a,
ed.			26	7/0.160	0.20	0.90		152		, ,
			24	11/0.160	0.20	1.05		88.6		
			22	17/0.160	0.20	1.20		62.5		
			20	21/0.180	0.20	1,50		39.5	1 .	
	80℃	30V	34	7/0.060	0.20	0.60	±0.05	728	15	500
		8	32	7/0.080	0.20	0.65		703		•
先			30	7/0.100	0.20	0.70		397		
先絞後錠 (ATC)			28	7/0.127	0.20	0.80		248		
分號			26	7/0.160	0.20	0.90		152		
		ľ	24	7/0.200	0.20	1.05		88.6	5	100
25			30	1/0.254	0.20	0.65		377		
單 (TA)			28	1/0.320	0.20	0.75		245		
· 線			26	1/0.404	0.20	0.85		155		

3

瑞興電線電纜制品廠

REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承認書

SPECIFICATION

型號 STYLE				UL 1571							
額	真定溫度/電壓 RATING	TEMP./V	OLT.				80°C	/30V			
11	線號 SIZE		AWG	34	32	30	28	26	24	22	20
	芯數 NUMB	ER	NO.	7	7	7	7	7	11	17	21
導體	銅線直徑 DIAMETER		MM	0.060	0.080	0.100	0.127	0.160	0.160	0.160	0180
導體 CONDUCTOR		最小銅線直徑 MIN.DIAMETER		0.054	0.074	0.090	0.117	0.150	0.150	0.150	0.170
DUC.	導體截面積 CROSS SEC -	AVG.	CM	39.7	64	100	159	253	404	640	1020
FOR	AREA OF COND	MIN.	CIVI	35.1	62.7	98	156	248	392	621	989
	綾距 LAY OF BU	NCH	INCH	0.40	0.40	0.40	0.50	0.60	0.70	0.80	1.25
	最大電阻 MAX.RESI	STANCE	Ω/KM	728	703	397	248	152	88.6	62.5	39.5
絕	完成外徑 O.D. (±	0.10)	MM	0.60	0.65	0.70	0.80	0.90	1.05	1.20	1.50
線 體	絕緣體厚度	AVG	107				0.	20			
USU	INSULATION THICKNESS	MIN	MM	0.15							
絕緣體 INSULATION	AVG 外被厚度 JACKET AVG		MM	/							
ž	THICKNESS	MIN	IVIIVI	/							
最小絕緣 INSULA	大電阻 TION ESISTANCE		$M\Omega/KM$	15							
火花試駁	SPARK TEST		KV	2KV/0.15sec							
最小伸長	基率 ELONGATION		%	100%							
TENSIL	最小抗張強度 STRENGTH		PSI	1500							
	送伸長率 ER AGING)		%	OF UNAGED 65							
	送抗張強度 TEN.ST.(A	AFTER	%	OF UNAGED 70							
老化試驗溫度/條件 AGING TEMP./TIME			113°C/168HRS								
耐燃燒試驗 FIAME TEST			VW-1								
高溫纏繞試驗 HEAT SHOCK TEST			80°C/1HR 1.60MM MANDREL								
低溫纏繞試驗 COLD BEND TEST			-10°C/1HR 3.2MM MANDREL								
耐電壓試 NSULAT	.驗 I ION POTENTIALST			500VAC/min							

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
REVISION		洪夹	李荣	劉安輝

2600 N.W. Lake Road Camas, WA 98607-0542 United States Country Code (360) 817-5500 FAX No. (360) B17-6000 hilp://www.ul.com

Underwriters iboratories Inc.@

File E108485

Vol. 2

Issued: 01-17-97

Revised:

5-9-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

IPONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer: (342072-001)

REI HSING WIRE & CABLE CO LTD TSENG TEN INDUSTRIAL PARK

CHEN KOU

CHANG AN TOWN

DONGGUAN GUANGDONG CHINA

Applicant: (559504-001)

REI HSING WIRE CO LTD

56-5 JIUN-ING ST

SHUH-LIN CITY TAIPEI HSIEN

TAIWAN

Recognized Company: (559504-001):

SAME AS APPLICANT

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The Prescribed Mark or Marking shall be used only at the above manufacturing location on such produes which comply with this Procedure and any other applicable

The Procedure ontains information for the use of the above named Manufacturer and the representative: of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the lanufacturer with the understanding that it is not to be copied, either wholly or in p: "t, and that it will be returned to Underwriters Laboratories Inc. upon

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UNDERWRITERS LABORATORIES INC.

J. J. Ritchie

Vice President

Laboratory Management and Operations-profil organization

dedicated to public safety and committed to quality service

File E108485

Vol. 2

Sec. 1

Page 1

Issued: 1997-01-17 Revised: 2007-06-19

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Report No. A2190175998101034

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BROWN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101034

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101034 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101034

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Test Result(s)

Tested Item(s)	Result	MDL			
Phthalates (DBP, BBP, DEHP, DIBP)					
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg			
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg			
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	96 mg/kg	50 mg/kg			
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg			
Tested Item(s)	Result	MDL			
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg			

Sample/Part Description

Brown wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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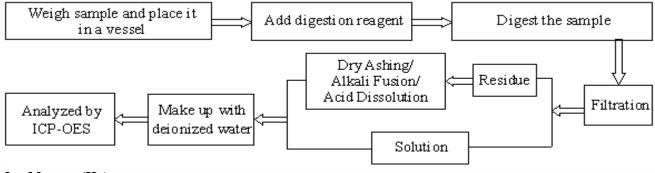


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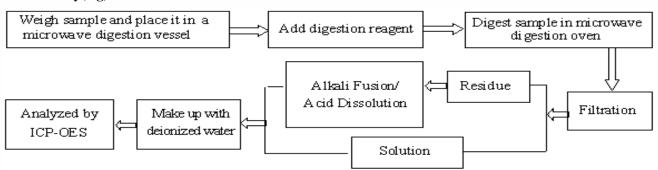
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



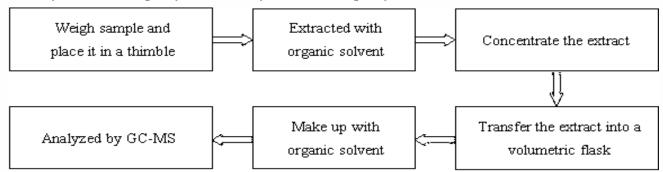
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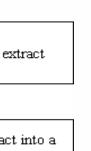


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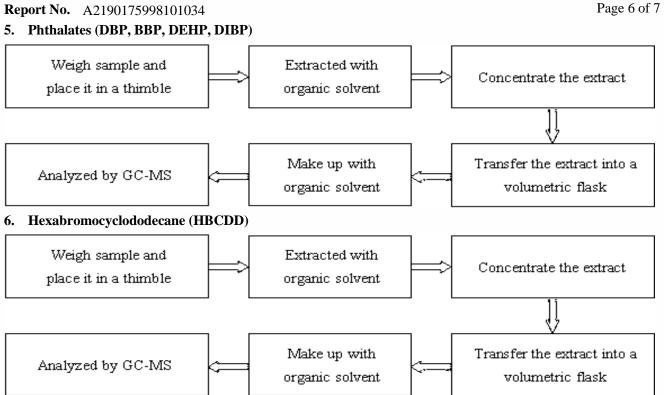


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101034

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Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101031

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PURPLE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Reihsing Supplier Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Please refer to the following page(s). Test Result(s)

sting International Group Co.,Ltd.

flill show

Reviewed by

Date

Pori Xia

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101031

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101031 **Test Result(s)**

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Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101031

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	84 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Purple wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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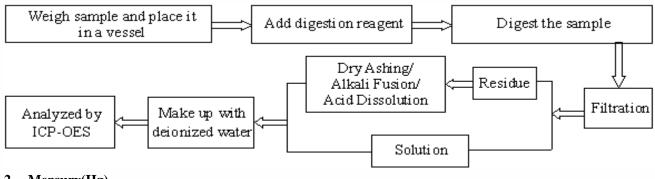


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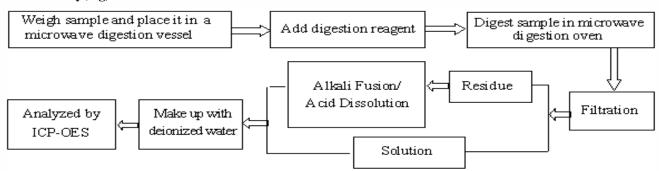
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



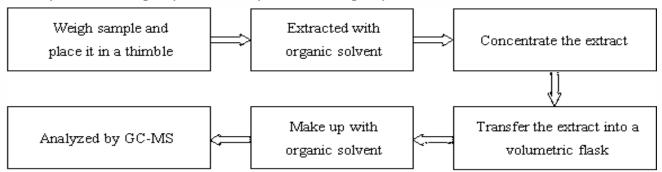
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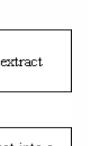


3. Hexavalent Chromium(Cr(VI))

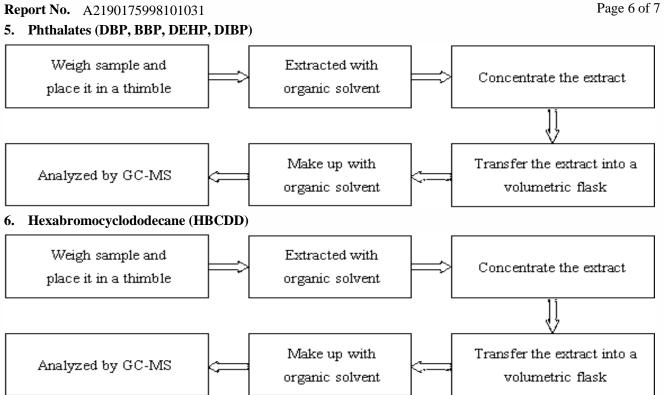


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







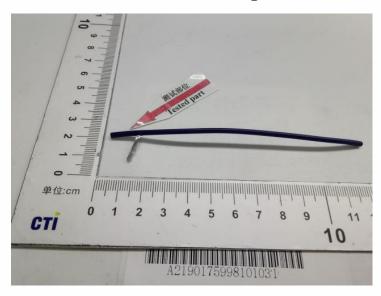




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Photo(s) of the sample(s)



*** End of report ***

Statement:

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- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101028

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample (s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name GREEN PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internation

freme Zhang flill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101028

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101028 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101028

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	350 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Green wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

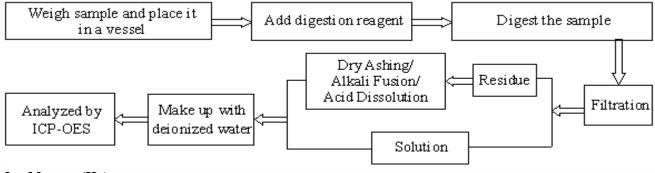


Report No. A2190175998101028

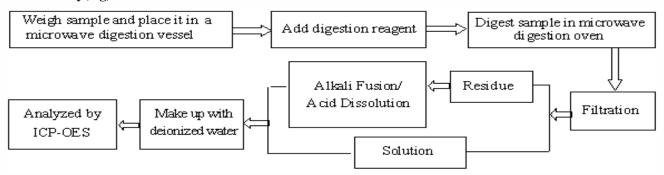
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



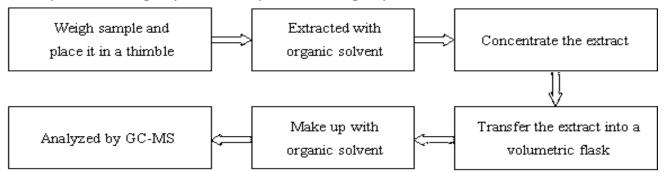
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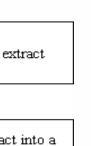


3. Hexavalent Chromium(Cr(VI))

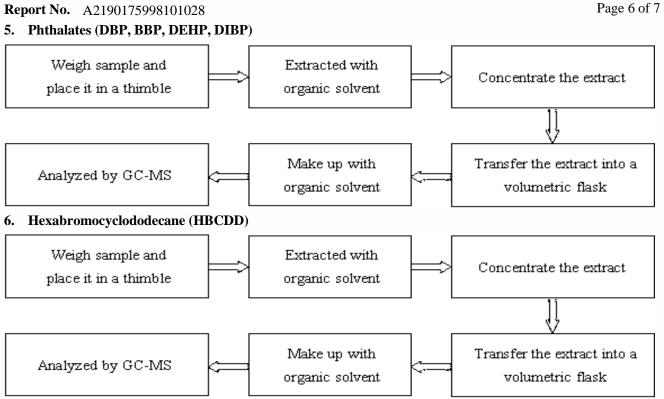


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







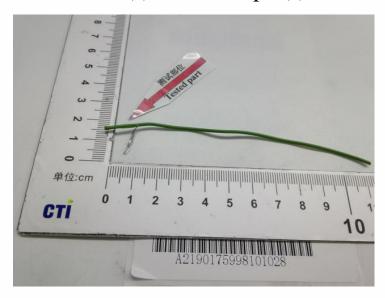




Report No. A2190175998101028

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Page 1 of

Report No. A2190175998101025

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

 $The following \ sample(s) \ and \ sample \ information \ was/were \ submitted \ and \ identified \ by/on \ the \ behalf \ of \ the \ client$

Sample Name BLUE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

from Zhang
Hill Zheng

Hill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

No. R338854670

tre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101025

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101025 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101025

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	102 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Blue wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

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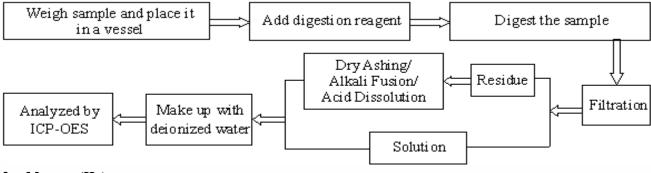


Report No. A2190175998101025

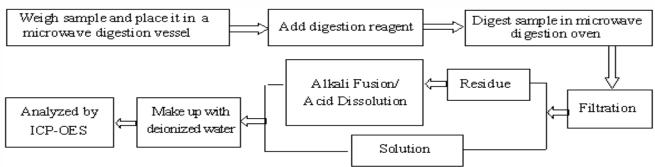
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



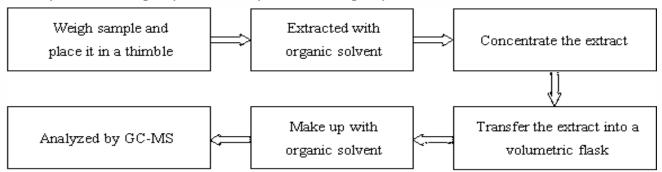
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

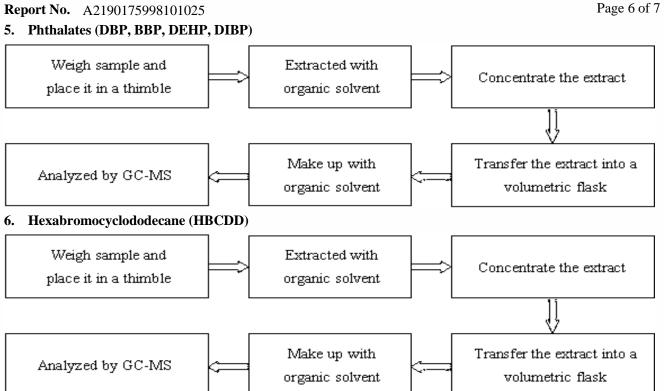


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101025

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101019

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name YELLOW PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill shore

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101019

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101019 **Test Result(s)** Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101019

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Yellow wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

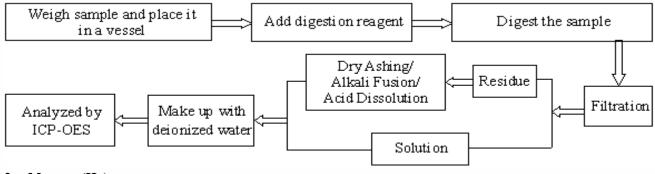


Report No. A2190175998101019

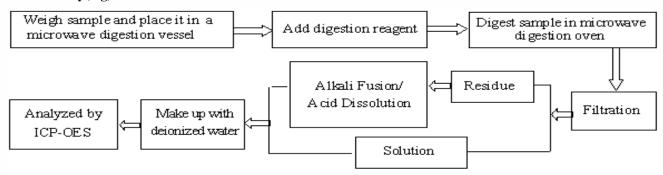
Page 5 of 7

Test Process

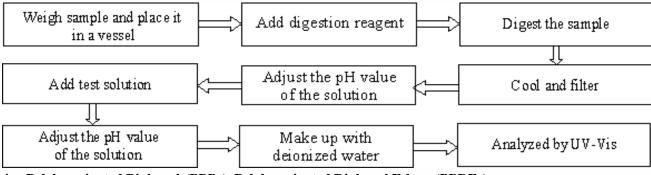
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



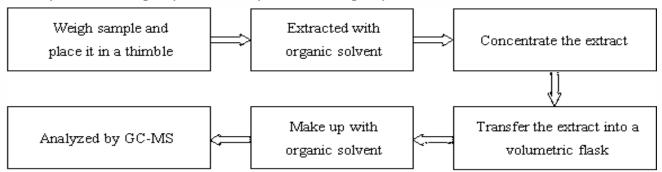
2. Mercury(Hg)

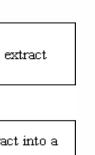


3. Hexavalent Chromium(Cr(VI))

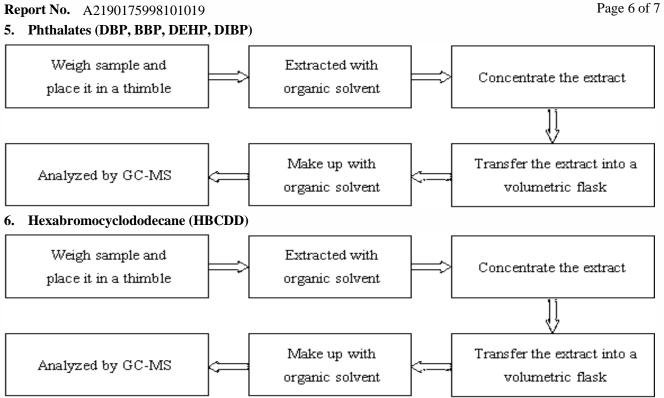


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101019

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101013

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name RED PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

flill 7 hora

Hill Zheng

Technical Manager

Pori Xia Reviewed by

Jul. 18, 2019

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



Report No. A2190175998101013

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101013 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101013

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL	
Phthalates (DBP, BBP, DEHP, DIBP)	Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg	
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg	
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg	
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg	
Tested Item(s)	Result	MDL	
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg	

Sample/Part Description

Red wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

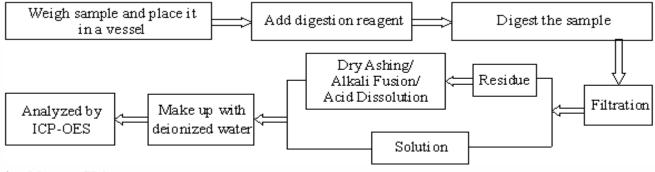


Report No. A2190175998101013

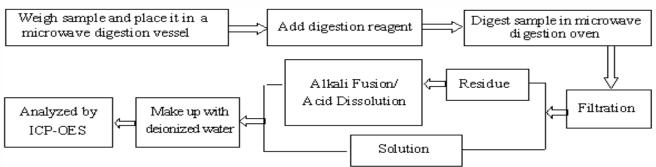
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



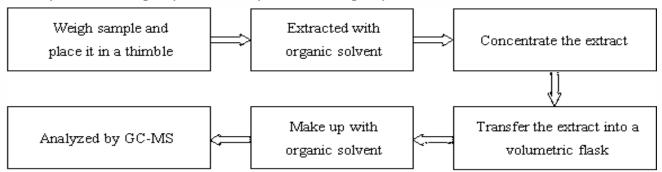
2. Mercury(Hg)

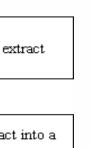


3. Hexavalent Chromium(Cr(VI))

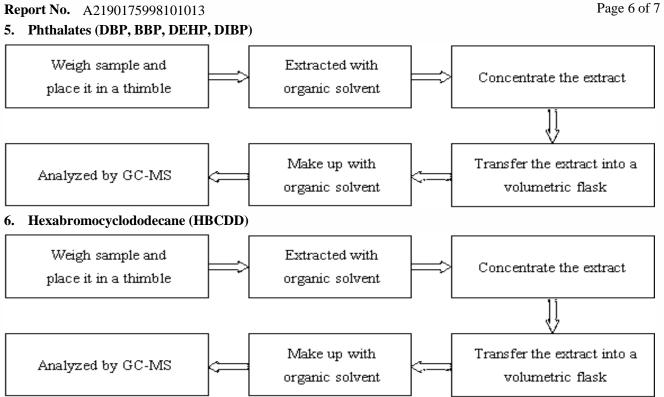


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







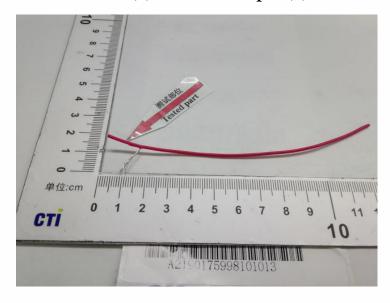




Report No. A2190175998101013

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101010

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name BLACK PVC LF INSULATED WIRE

Part No. **UL1015 LF WIRE**

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing

Jul. 15, 2019 Sample Received Date

Jul. 15, 2019 to Jul. 18, 2019 **Testing Period**

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

ting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101010

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101010 **Test Result(s)** Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101010

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	138 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Black wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 $\hbox{-MDL} = \hbox{Method Detection Limit}$

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

7/0

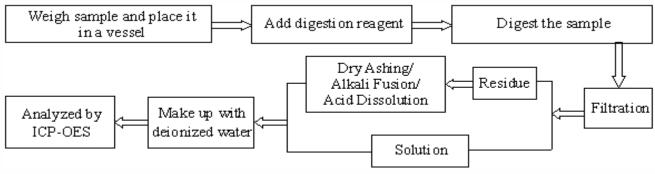


Report No. A2190175998101010

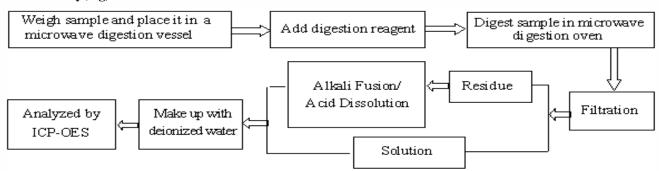
Page 5 of 7

Test Process

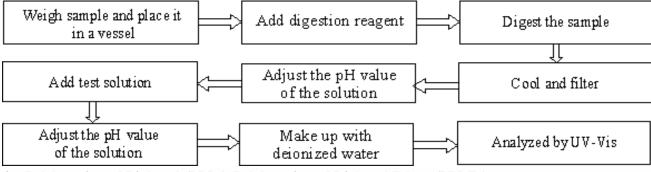
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



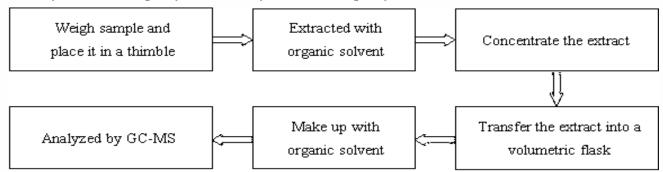
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

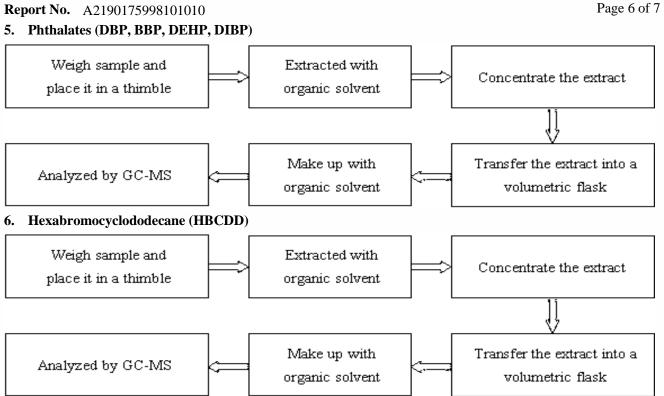


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101010

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Page 1 of 7

Report No. A2190175998101004

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name ORANGE PVC LF INSULATED WIRE

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Supplier Reihsing
Sample Received Date Jul. 15, 2019

Testing Period Jul. 15, 2019 to Jul. 18, 2019

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Approved by

Centre Testing Internati

frence Zhang flill Zheng

Technical Manager

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

No. R338854670

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101004

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101004 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101004

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Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	88 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

Orange wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

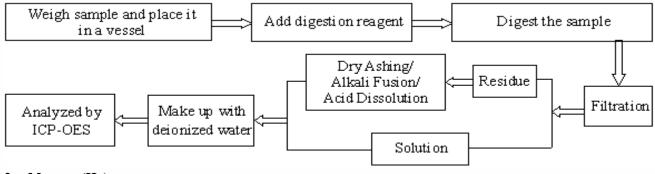


Report No. A2190175998101004

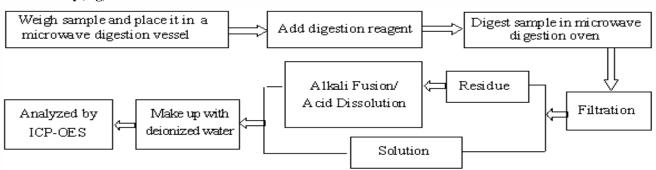
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



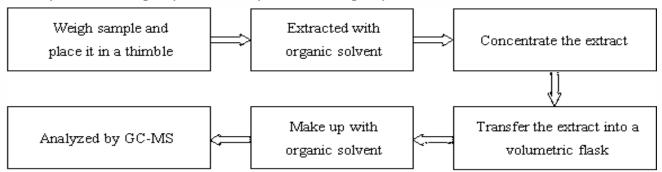
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

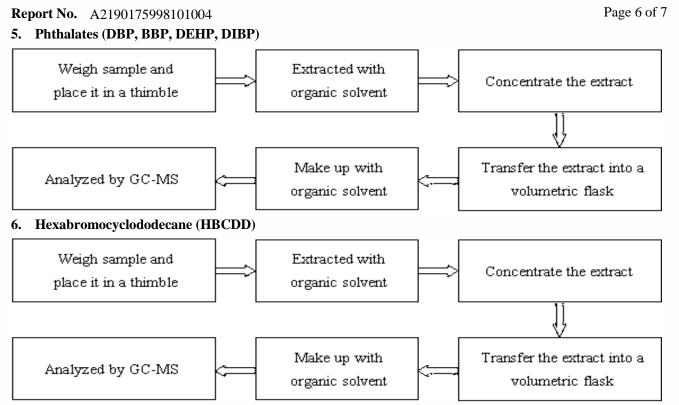


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)







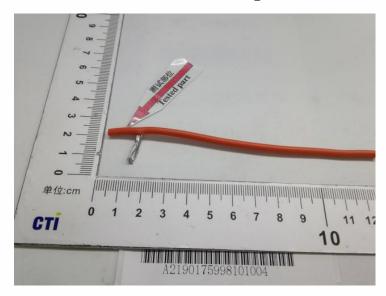




Report No. A2190175998101004

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Report No. A2190175998101001

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD

Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY

GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

WHITE PVC LF INSULATED WIRE Sample Name

Part No. UL1015 LF WIRE

Client Reference Information UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,

1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,

1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, $2733,\!2562,\!2096,\!1533,\!2547,\!20005,\!20276,\!2854,\!2851,\!1185,\!10070,$ 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),

OR Other PVC insulated wire

Reihsing Supplier Jul. 15, 2019 Sample Received Date

Testing Period Jul. 15, 2019 to Jul. 18, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane

(HBCDD) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

sting International Group Co.,Ltd.

Hill Those

Reviewed by

Pori Xia

Date

Jul. 18, 2019

Hill Zheng

Technical Manager

No. R338854670

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101001

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS



Report No. A2190175998101001 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190175998101001

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	92 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description

White wire jacket

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million

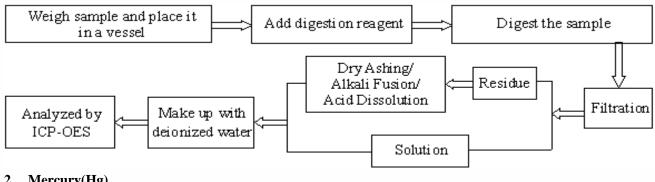


Report No. A2190175998101001

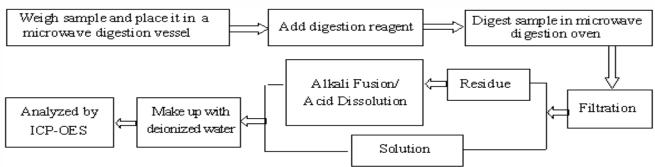
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



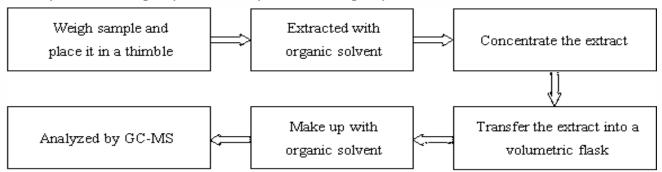
2. Mercury(Hg)

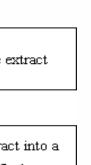


3. Hexavalent Chromium(Cr(VI))

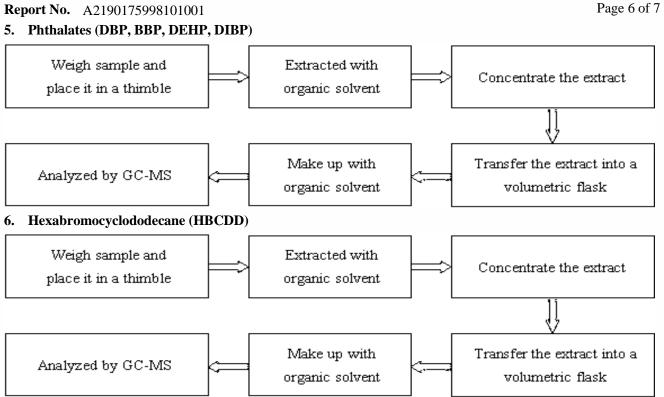


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)













Report No. A2190175998101001

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

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Test Report (SVHC)

No. CANEC1901488301

Date: 30 Jan 2019

Page 1 of 21

SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-02

Client Ref. Info. : I-PE-02;I-PP-02; I-PU-02; I-RU-02; I-TPR-02;I-PPE-02

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

中国·广州·经济技术开发区科学城科珠路198号

(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@sgs.com |
1/98/Kezhu Road, Skeinbert Park Guangzhou Economic & Technology Development District, Quangzhou China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn

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Test Report (SVHC)

No. CANEC1901488301

Date: 30 Jan 2019

Page 2 of 21

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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**Attention: To check the authenticity of testing //inspection report & certificate, please contact us at telephone: (86-755) 83071443.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Test Report (SVHC)

No. CANEC1901488301 Date: 30 Jan 2019

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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

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If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.001	Black liquid	6
SN2	CAN19-014883.004	Black liquid	181
SN3	CAN19-014883.007	Black liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.

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10. Results & photo(s) of this report refer to test report CANEC18142276.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
_	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	004
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	004
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	004
I	4	Anthracene	120-12-7	0.050	004
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	004
_	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	004
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	004
I	8	Cobalt dichloride*	7646-79-9	0.005	004
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	004
I	10	Diarsenic trioxide*	1327-53-3	0.005	004
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	004
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	004
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005	004
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	004
I	15	Triethyl arsenate*	15606-95-8	0.005	004
II	16	2,4-Dinitrotoluene	121-14-2	0.050	004
II	17	Acrylamide	79-06-1	0.050	004
II	18	Anthracene oil**	90640-80-5	0.050	004
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	004
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	004
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	004
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	004
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	004
II	25	Lead chromate*	7758-97-6	0.005	004
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	004
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	004
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	004
III	29	Ammonium dichromate*	7789-09-5	0.005	004
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	004
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	004
Ш	32	Potassium chromate*	7789-00-6	0.005	004
Ш	33	Potassium dichromate*	7778-50-9	0.005	004
III	34	Sodium chromate*	7775-11-3	0.005	004
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	004
III	36	Trichloroethylene	79-01-6	0.050	004
IV	37	2-Ethoxyethanol	110-80-5	0.050	004
IV	38	2-Methoxyethanol	109-86-4	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	004
IV	40	Chromium trioxide*	1333-82-0	0.005	004
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	004
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	004
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	004
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	004
V	45	1,2,3-trichloropropane	96-18-4	0.050	004
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	004
\	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	004
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	004
V	49	2-ethoxyethyl acetate	111-15-9	0.050	004
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	004
V	51	Strontium chromate*	7789-06-2	0.005	004
VI	52	1,2-Dichloroethane	107-06-2	0.050	004
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	004
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	004
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	004
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	004
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	004
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	004
VI	60	Calcium arsenate*	7778-44-1	0.005	004
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	004
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	004
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	004
VI	64	Lead dipicrate*	6477-64-1	0.005	004
VI	65	Lead styphnate*	15245-44-0	0.005	004
VI	66	N,N-dimethylacetamide	127-19-5	0.050	004
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	004
VI	68	Phenolphthalein	77-09-8	0.050	004
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	004
VI	70	Trilead diarsenate*	3687-31-8	0.005	004
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	004
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	004
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	004
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	004
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	004
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	004
VII	78	Diboron trioxide*	1303-86-2	0.005	004
VII	79	Formamide	75-12-7	0.050	004
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	004
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	004
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	004
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	004
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	004
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	004
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	004
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	004
VIII	88	1-Bromopropane	106-94-5	0.050	004
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	004
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	004
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	004
VIII	93	4-Aminoazobenzene	60-09-3	0.050	004
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	004
VIII	95	4-Nonylphenol, branched and linear	-	0.050	004
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	004
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	004
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	004
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	004
III	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	004
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	004
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	004
VIII	103	Diethyl sulphate	64-67-5	0.050	004
VIII	104	Diisopentylphthalate	605-50-5	0.050	004
VIII	105	Dimethyl sulphate	77-78-1	0.050	004
VIII	106	Dinoseb	88-85-7	0.050	004
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	004
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	004
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	004
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	004
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	004
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	004
VIII	114	Lead cyanamidate*	20837-86-9	0.005	004
VIII	115	Lead dinitrate*	10099-74-8	0.005	004
VIII	116	Lead monoxide*	1317-36-8	0.005	004
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	004
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	004
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	004
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	004
VIII	121	Methoxyacetic acid	625-45-6	0.050	004
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	004
VIII	123	N,N-dimethylformamide	68-12-2	0.050	004
VIII	124	N-Methylacetamide	79-16-3	0.050	004
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	004
VIII	126	o-Aminoazotoluene	97-56-3	0.050	004
VIII	127	o-Toluidine	95-53-4	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	004
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	004
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	004
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	004
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	004
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	004
VIII	134	Tetraethyllead*	78-00-2	0.005	004
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	004
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	004
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	004
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	004
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	004
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	004
IX	141	Cadmium oxide*	1306-19-0	0.005	004
IX	142	Cadmium*	7440-43-9	0.005	004
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	004
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	004
Х	145	Cadmium sulphide*	1306-23-6	0.005	004
Х	146	Dihexyl phthalate	84-75-3	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	004
X	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	004
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	004
X	150	Lead di(acetate)*	301-04-2	0.005	004
Х	151	Trixylyl phosphate	25155-23-1	0.050	004
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	004
ΧI	153	Cadmium chloride*	10108-64-2	0.005	004
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	004
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	004
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	004
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	004
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	004
XII	159	Cadmium fluoride*	7790-79-6	0.005	004
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	004
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	004
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	004
XIV	164	1,3-propanesultone	1120-71-4	0.050	004
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	004
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	004
XIV	167	Nitrobenzene	98-95-3	0.050	004
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	004
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	004
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	004
XVI	171	4-Heptylphenol, branched and linear	-	0.050	004



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	004
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	004
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	004
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	004
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	004
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	004
XVIII	178	Cadmium carbonate*	513-78-0	0.005	004
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	004
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	004
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	004
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	007
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	007
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	007
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	007
XIX	186	Disodium octaborate*	12008-41-2	0.005	007



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No. CANEC1901488301

Date: 30 Jan 2019

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	007
XIX	188	Ethylenediamine	107-15-3	0.050	007
XIX	189	Lead*	7439-92-1	0.005	007
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	007
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	007
xx	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	001
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	001
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	001
XX	195	Fluoranthene	206-44-0	0.050	001
XX	196	Phenanthrene	85-01-8	0.050	001
XX	197	Pyrene	129-00-0	0.050	001



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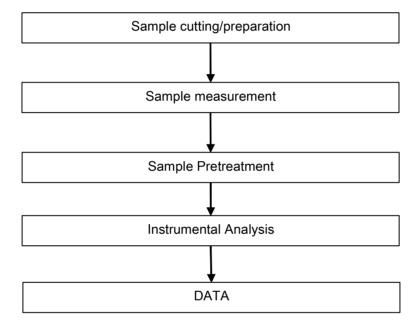
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SVHC Testing Flow Chart





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Sample photo:







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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: INK WHITE FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-01 Date of Sample Received: 05 Jun 2019

Testing Period: 05 Jun 2019 - 12 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 12 Jun 2019 No. CANEC1910676507 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-106765.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19106765	507	Date:	12 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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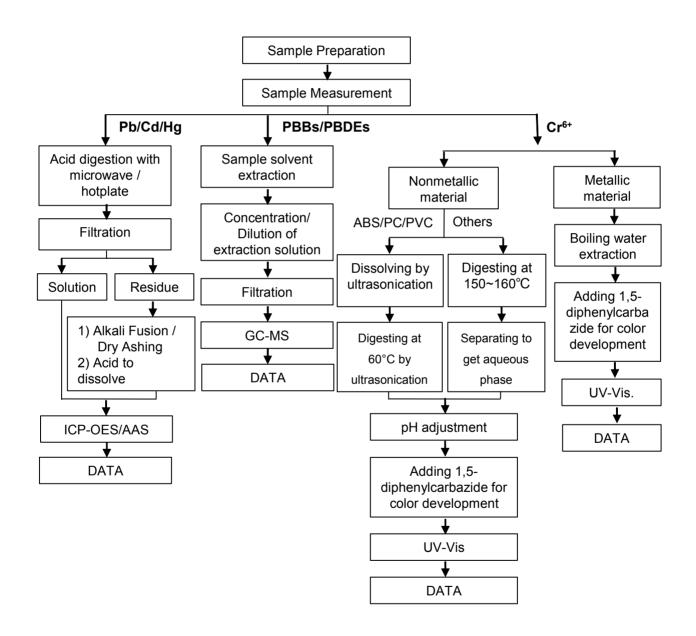
Page 4 of 6

Date: 12 Jun 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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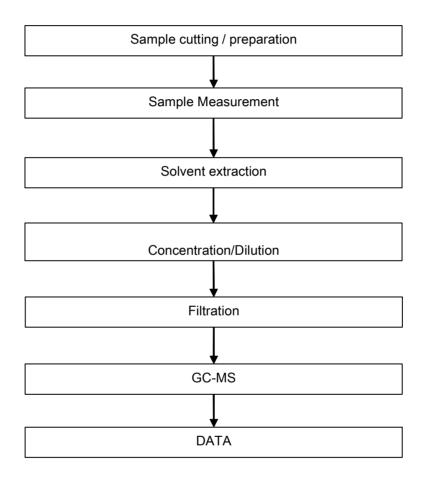
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Phthalates Testing Flow Chart





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Sample photo:



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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 1 of 7

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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Test Report No. CANEC1904032401 Date: 21 Mar 2019 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-040324.001 Copper colored metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1904032401		Date: 2	21 Mar 2019	Page 3 of 7	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>		
Hexabromodiphenyl ether	-	mg/kg	5	ND		
Heptabromodiphenyl ether	-	mg/kg	5	ND		
Octabromodiphenyl ether	-	mg/kg	5	ND		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND		
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND		
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND



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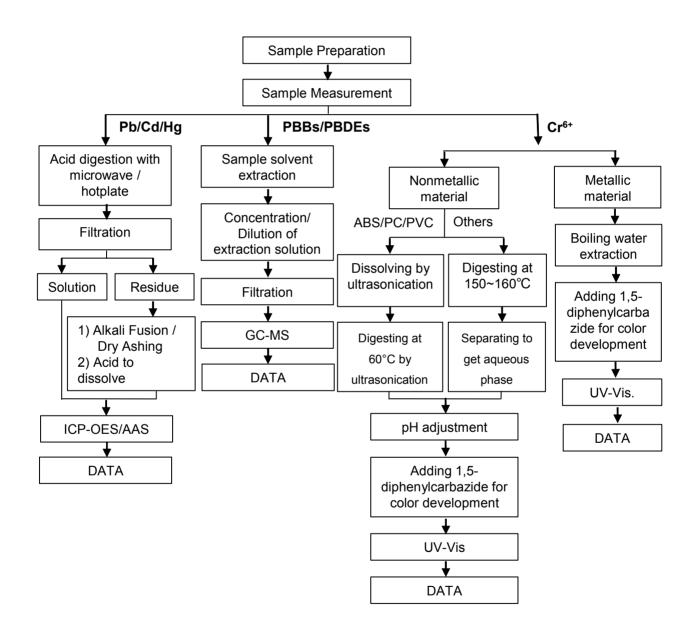
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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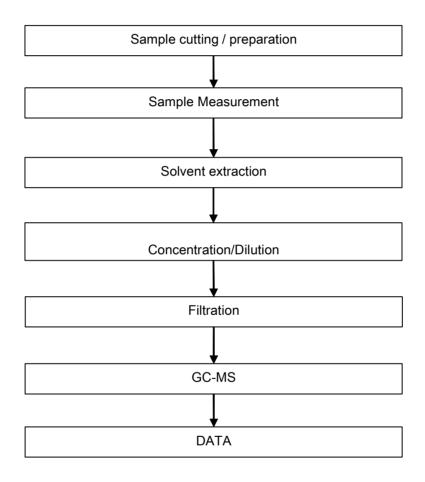
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Phthalates Testing Flow Chart





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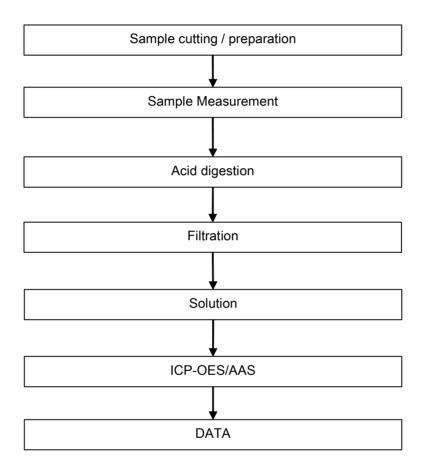
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Elementary Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD
QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BARE COPPER WIRE, TINNED COPPER WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the

notification of WTO on Feb 7, 2019.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Nobet Shi



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of \geq 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or \geq 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.003	Copper colored metal wire(a)+silvery plated
		metal wire(b)

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC
- 10. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyItin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
Ι	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
Ι	15	Triethyl arsenate*	15606-95-8	0.005
П	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
П	25	Lead chromate*	7758-97-6	0.005
П	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
Ш	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
٧	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	×	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Χ	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050



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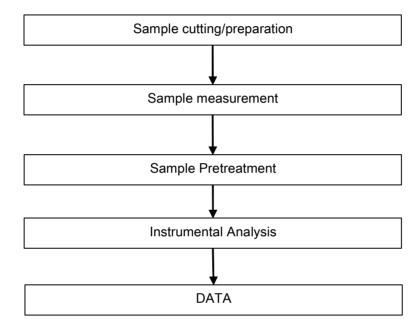
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1904032402 Date: 21 Mar 2019 Page 1 of 12

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: TINNED COPPER

WIRE

SGS Job No.: CP19-011773 - GZ

Date of Sample Received: 15 Mar 2019

Testing Period: 15 Mar 2019 - 21 Mar 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Volet Shi



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No. CANEC1904032402

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN19-040324.002 Silvery plated metal wire

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

中国·广州·经济技术开发区科学城科珠路198号



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Test Report	No. CANEC19040324	02	Date: 2	21 Mar 2019	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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Test Report	No. CANEC1904032402	Date: 21 Mar 2019	Page	e 4 of 12
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ac		mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Ar	nthracene,			
Fluoranthene				ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	ory 2	Category 3				
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).		
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	< 1	< 2		< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

PFOS (Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s) CAS NO. <u>Unit</u> MDL 002 Perfluorooctane Sulfonates (PFOS)^ ND mg/kg 10

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,



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N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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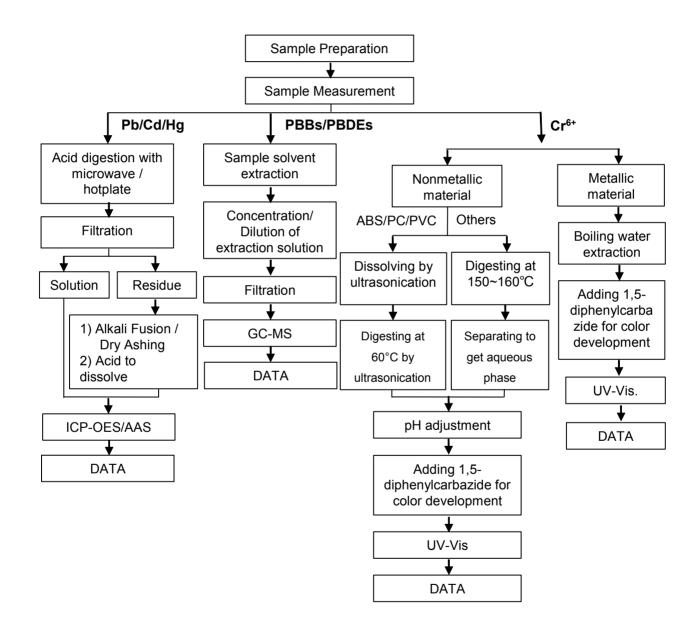
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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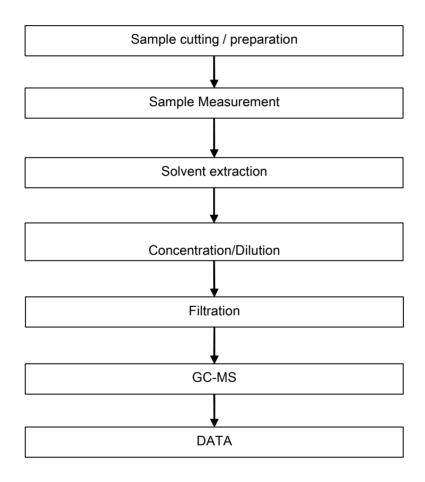
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Phthalates Testing Flow Chart





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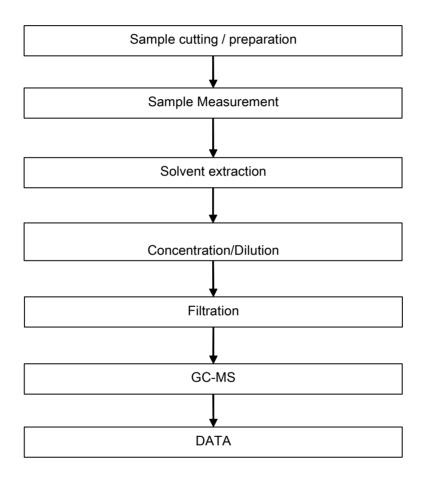
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PAHs Testing Flow Chart





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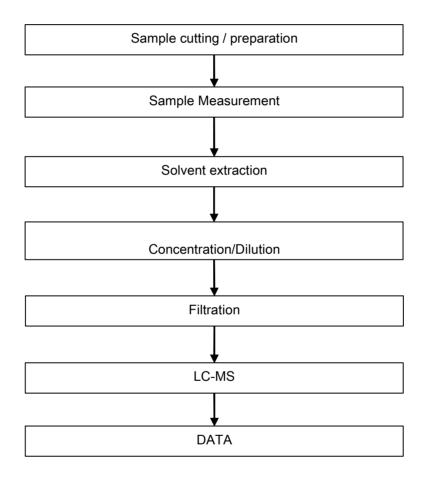
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PFOA / PFOS Testing Flow Chart





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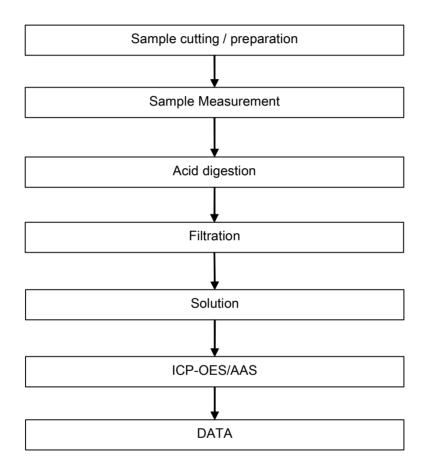
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Elementary Testing Flow Chart





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Sample photo:



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*** End of Report ***



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Date: 30 Jan 2019

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SINWA LASER TECHNOLOGY CO.,LTD.
50.WU KONG 5 TH RD.,WU KU INDUSTRIAL PARK.TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : INK WHITE FOR WIRE

&CABLE PRINTING

SGS Job No. : CP19-003784 - SZ

Model No. : I-PVC-01

Client Ref. Info.: I-PE-01;I-TPE-01; I-PP-01; I-PU-01; I-RU-01; I-TPR-01;I-PPE-01

Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and eighty one (181) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2018 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Ten (10) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning

the REACH.

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(iii) Six (6) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.



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Date: 30 Jan 2019

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.002	White liquid	6
SN2	CAN19-014883.005	White liquid	181
SN3	CAN19-014883.008	White liquid	10

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario. ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 7. ★CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- 9. Results & photo(s) of this report refer to test report CANEC18044466.
- 10. Results & photo(s) of this report refer to test report CANEC18142276.

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	005
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	005
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	005
I	4	Anthracene	120-12-7	0.050	005
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	005
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	005
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	005
I	8	Cobalt dichloride*	7646-79-9	0.005	005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	005
I	10	Diarsenic trioxide*	1327-53-3	0.005	005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	005
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)Δ	25637-99-4,319 4- 55-6	0.050	005
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	005
I	15	Triethyl arsenate*	15606-95-8	0.005	005
II	16	2,4-Dinitrotoluene	121-14-2	0.050	005
II	17	Acrylamide	79-06-1	0.050	005
II	18	Anthracene oil**	90640-80-5	0.050	005
П	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	005



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	005
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	005
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	005
Ξ	23	Diisobutyl phthalate	84-69-5	0.050	005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	005
II	25	Lead chromate*	7758-97-6	0.005	005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	005
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	005
III	29	Ammonium dichromate*	7789-09-5	0.005	005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	005
Ш	32	Potassium chromate*	7789-00-6	0.005	005
Ш	33	Potassium dichromate*	7778-50-9	0.005	005
III	34	Sodium chromate*	7775-11-3	0.005	005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	005
Ш	36	Trichloroethylene	79-01-6	0.050	005
IV	37	2-Ethoxyethanol	110-80-5	0.050	005
IV	38	2-Methoxyethanol	109-86-4	0.050	005



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	005
IV	40	Chromium trioxide*	1333-82-0	0.005	005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	005
V	45	1,2,3-trichloropropane	96-18-4	0.050	005
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	005
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	005
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	005
V	49	2-ethoxyethyl acetate	111-15-9	0.050	005
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	005
V	51	Strontium chromate*	7789-06-2	0.005	005
VI	52	1,2-Dichloroethane	107-06-2	0.050	005
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	005
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	005
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	005
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	005



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	005
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	005
VI	60	Calcium arsenate*	7778-44-1	0.005	005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	005
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	005
VI	64	Lead dipicrate*	6477-64-1	0.005	005
VI	65	Lead styphnate*	15245-44-0	0.005	005
VI	66	N,N-dimethylacetamide	127-19-5	0.050	005
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	005
VI	68	Phenolphthalein	77-09-8	0.050	005
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	005
VI	70	Trilead diarsenate*	3687-31-8	0.005	005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	005
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	005
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	005
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	005
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	005
VII	78	Diboron trioxide*	1303-86-2	0.005	005
VII	79	Formamide	75-12-7	0.050	005
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	005
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	005
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	005
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050	005
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	005
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	005
VIII	88	1-Bromopropane	106-94-5	0.050	005
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	005
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	005
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	005
VIII	93	4-Aminoazobenzene	60-09-3	0.050	005
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	005
VIII	95	4-Nonylphenol, branched and linear	-	0.050	005
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	005
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	005
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	005
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	005
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	005
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	005
VIII	103	Diethyl sulphate	64-67-5	0.050	005
VIII	104	Diisopentylphthalate	605-50-5	0.050	005
VIII	105	Dimethyl sulphate	77-78-1	0.050	005
VIII	106	Dinoseb	88-85-7	0.050	005
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	005



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Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	005
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	005
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	005
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	¥	0.050	005
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	005
VIII	114	Lead cyanamidate*	20837-86-9	0.005	005
VIII	115	Lead dinitrate*	10099-74-8	0.005	005
VIII	116	Lead monoxide*	1317-36-8	0.005	005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	005
VIII	121	Methoxyacetic acid	625-45-6	0.050	005
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	005
VIII	123	N,N-dimethylformamide	68-12-2	0.050	005
VIII	124	N-Methylacetamide	79-16-3	0.050	005
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	005
VIII	126	o-Aminoazotoluene	97-56-3	0.050	005
VIII	127	o-Toluidine	95-53-4	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	005
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	005
VIII	134	Tetraethyllead*	78-00-2	0.005	005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	005
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	005
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	005
IX	141	Cadmium oxide*	1306-19-0	0.005	005
IX	142	Cadmium*	7440-43-9	0.005	005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	005
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	005
Х	145	Cadmium sulphide*	1306-23-6	0.005	005
Χ	146	Dihexyl phthalate	84-75-3	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	005
Х	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	005
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	005
Х	150	Lead di(acetate)*	301-04-2	0.005	005
Х	151	Trixylyl phosphate	25155-23-1	0.050	005
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	005
ΧI	153	Cadmium chloride*	10108-64-2	0.005	005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005	005
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	005
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	005
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	005
XII	159	Cadmium fluoride*	7790-79-6	0.005	005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy l-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	005
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	005
XIV	164	1,3-propanesultone	1120-71-4	0.050	005
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	005
XIV	167	Nitrobenzene	98-95-3	0.050	005
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	005
XVI	171	4-Heptylphenol, branched and linear	-	0.050	005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	005
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	005
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	005
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	005
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	005
XVIII	178	Cadmium carbonate*	513-78-0	0.005	005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	005
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	008
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	008
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	008
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	008
XIX	186	Disodium octaborate*	12008-41-2	0.005	008



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	008
XIX	188	Ethylenediamine	107-15-3	0.050	008
XIX	189	Lead*	7439-92-1	0.005	008
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	008
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	008
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	002
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	002
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	002
XX	195	Fluoranthene	206-44-0	0.050	002
XX	196	Phenanthrene	85-01-8	0.050	002
XX	197	Pyrene	129-00-0	0.050	002



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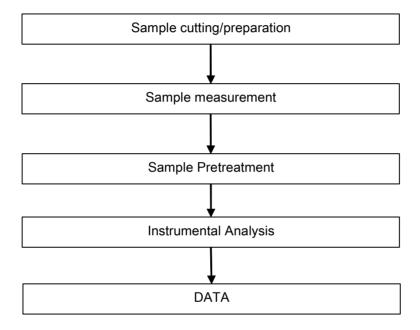
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ATTACHMENTS

SVHC Testing Flow Chart





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Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

This report is to supersede test report CANEC1910676513

The following sample(s) was/were submitted and identified on behalf of the clients as: INK BLACK FOR WIRE&CABLE PRINTING

SGS Job No.: CP19-029729 - SZ

Client Ref. Info.: I-PVC-02 Date of Sample Received: 05 Jun 2019

05 Jun 2019 - 12 Jun 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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中国·广州·经济技术开发区科学城科珠路198号



Test Report No. CANEC1910676519 Date: 21 Jun 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** SN₁ CAN19-106765.003 Black liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19106765	19	Date: 21 Jun 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1.000	ma/ka	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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No. CANEC1910676519

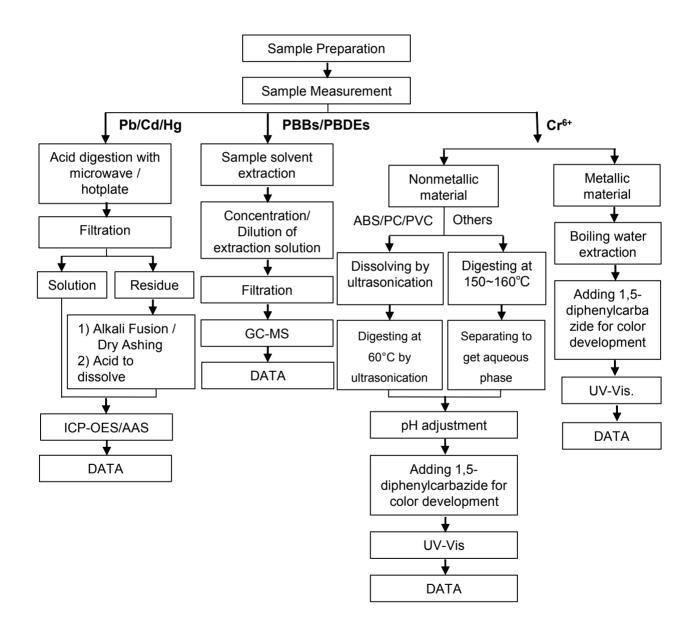
Page 4 of 6

Date: 21 Jun 2019

ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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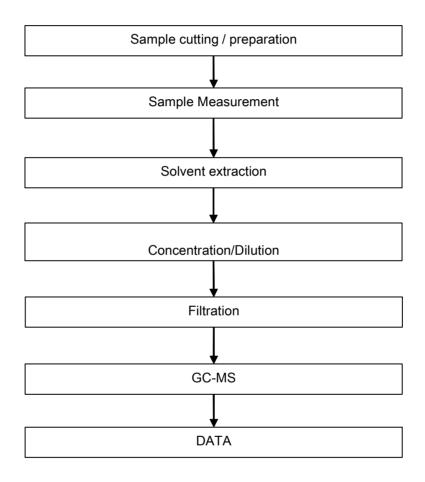
No. CANEC1910676519

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ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC1910676519

Page 6 of 6

Date: 21 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

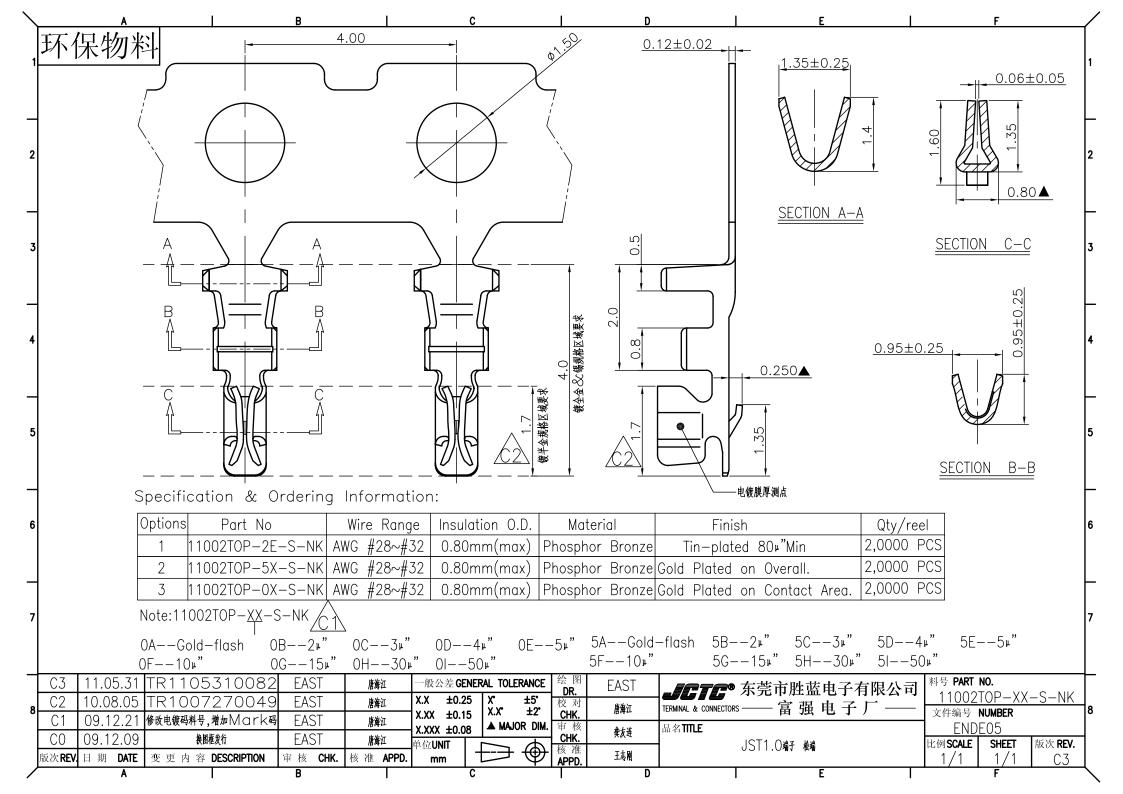
*** End of Report ***

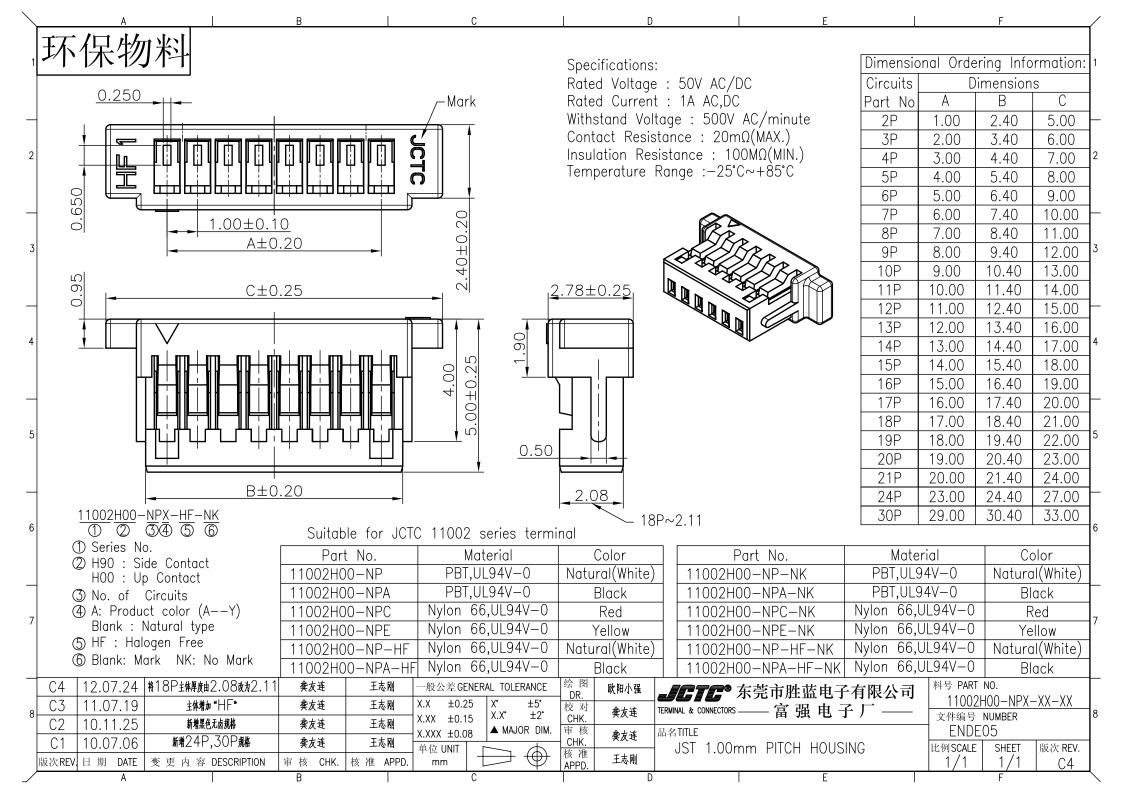


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Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

DONGGUAN CITY SHENGLAN ELECTRONICS CO LTD

F338796

Hexin Rd

Shatou District

Changan

Dongguan, Guangdong 523846 CHINA

Connectors, Model(s) Cat. No. 11002H00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 17, 18, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W90, follow by -2X, follow by 5, 6, 8, 9, 10, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11253H, followed by -20 or -30, followed by P.

Cat. No. 11253W, followed by -20 or -30, followed by P.

Cat. No. 11258H00, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow A thru Z or 1 thru 9.

Cat. No. 11258W90, follow by -S, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Cat. No. 12002H00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W90, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Cat. No. 12505W00, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12505W90, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P. $\,$

Cat. No. 12543H, followed by -2 thru -20, followed by P.

Cat. No. 12547H00, followed by -3 thru -8, followed by P.

Cat. No. 13502W90, followed by -2P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9.

Cat. No. 13962H00, 13962W00 and 13962W90, followed by -2P thru -10P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by - A thru -Z, or -0 thru -9.

Cat. No. 22001H, followed by -2 thru -16, followed by P.

Cat. No. 22501H, followed by -2 thru -14, followed by P.

Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.

Cat. Nos. 11001H and 11001W, followed by -30, followed by P.

Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.

Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.

Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.

Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.

Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.

Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.

Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.

Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.

Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.

Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.

Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.

Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.

Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.

Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.

Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.

Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.

Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.

Cat. Nos. 51274H-7P and 51275H-7P.

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Last Updated on 2014-04-25

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Test Report No. CANEC1917598907 Date: 17 Sep 2019 Page 1 of 19

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Nylon 66 UL 94V-0 Natural color housing

SGS Job No.: CP19-049304 - SZ

Tested Sample Info. : Nylon 66 UL 94V-0 Natural color housing

Client Ref. Info. : PLEASE SEE REMARK

Date of Sample Received: 05 Sep 2019

05 Sep 2019 - 17 Sep 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalate	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)	See Results



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No. CANEC1917598907

Page 2 of 19

Date: 17 Sep 2019

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessieli

Jessie Li Approved Signatory



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No. CANEC1917598907 Date: 17 Sep 2019 Page 3 of 19

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description** CAN19-175989.003 SN₁ White material

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
100	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637.25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Elementary Analysis

SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method Test Method:

3052:1996), analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

Tetrabromobisphenol A (TBBP-A)

Test Method: SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996),

analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

Red Phosphor



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Test Method: SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS/

ICP-OES.

003 Test Item(s) Unit **MDL** Red phosphorus 500 ND mg/kg

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not of category 1 wit foreseeable conskin for longe (long-term skin frequent conta	h ontact to r than 30 s n) or	Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	foreseeable ss than 30 s
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2 < 10			
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	003
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, γ-HBCDD)			



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Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	003
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.01	ND
alkyl esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.01	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.



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In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

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iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

Phthalate(s)

Test Method: With reference to SGS in house method (SGS-CCL-TOP-042-41), analysis was performed by

LC-MS.

Test Item(s)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND

<u>European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins)</u> (SCCPs)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)	-	mg/kg	50	ND
(MCCPs)				

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

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Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS) [^]		mg/kg	0.01	ND



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Notes:

(1) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid. Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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REMARK 10001、10500、10800、11001、11002、11003、11004、11005、11006、11007、11008、 11201、11202、11204、11250、11251、11252、11253、11254、11255、11256、11257、 11258、11259、11270、11500、11501、11502、11503、11508、11800、11801、12001、 12002、12003、12004、12005、12006、12007、12008、12009、12010、12011、12012、 12013, 12014, 12015, 12016, 12017, 12018, 12501, 12502, 12503, 12504, 12505, 12506、12508、12509、12540、12541、12542、12543、12544、12545、12546、12547、 12548, 12549, 13402, 13502, 13601, 13961, 13962, 13963, 14000, 15001, 15002, 15080, 17921, 20001, 20501, 20502, 20503, 20602, 20800, 20803, 21001, 21251, 21501、21611、21811、21813、21814、21816、21817、21818、21819、22001、22501、 32001, 33001, 33002, 34201, 34202, 35401, 34502, 35081, 35082, 36201, 36202, 40301, 40302, 40303, 40305, 40306, 40501, 40502, 40503, 40504, 40505, 40506, 40507, 40508, 40513, 40536, 40559, 40561, 40562, 40583, 40584, 40586, 41001, 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50501, 50601, 50602, 50801, 50802, 51001, 51050, 51271, 51272, 51274, 51275, 51276, 51277, 51278, 51279, 51280, 52001, 52002, 52003, 52004, 52005, 52006, 52041, 52042, 52401, 52501, 52502, 52503, 52504, 54003, 54301, 55001, 60000, 60001、60100、61001、61002、61003、61004、61005、61006、61007、61008、61009、 61010、61013、61100、61270、62001、62291、62771、62772、63100、64001、64100、 65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、70500、 70600, 70801, 70901, 70910, 71008, 71101, 72001, 72007, 72008, 72010, 72101, 81290、81290、LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、 TNDA3, JTHA8, SAF85, UAHA2, TNA11, TNDA3, RJCA9, RJHA6, DSB11, MCB11, UAB11, WFB11, WTB11, RJB11, HDB11, HDB12, HDB13, UCB11, UBB1B, UBB11, UAB16, UADB8, JAB11, YB, TP, MCMBE1, UMB1B, RJMAE2, BUA0CB, BUA0CB, UCMAJ1, BS0130, RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1, TNTAE1, UCMAJ1, TNTBT3, 9001, 9002, 5000102, BT035210, THREE IN ONE, FOUR IN ONE, USB, HDMI, RJ, 0308, XSB0, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO, OEM, TNAOPO, SCA, TUAOPH, SUAS02, AWDANW, AWDCIW, AWDATB, AHFANB, TNTBC1, TNB12, TNKBG1/2/3/4, UBB14, US90, HE103A, BCO, WUSF5526, UBDU2、UBMBS1/2、BB0、BPO、HD9A、PIN、TUA0PX、6500、BS0261、B0032、BP0156、 BP0237, BT035210, HP HS, N85, QB140, UC, Charging gun, BB0158, B0026, SA96, SA95, U1B, AT89, TN, UBB



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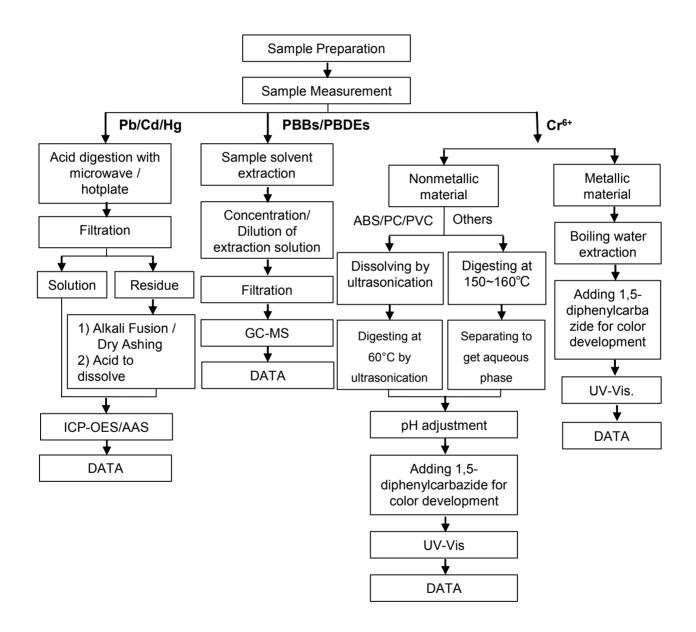
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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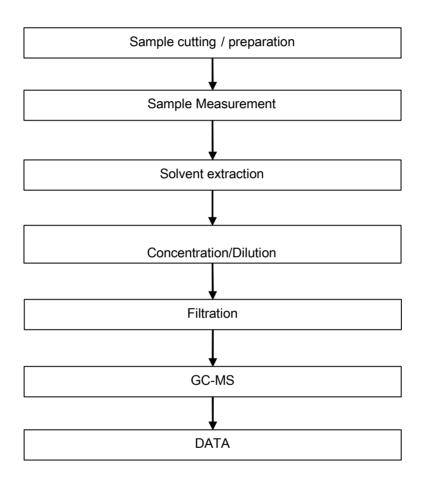
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Phthalates Testing Flow Chart





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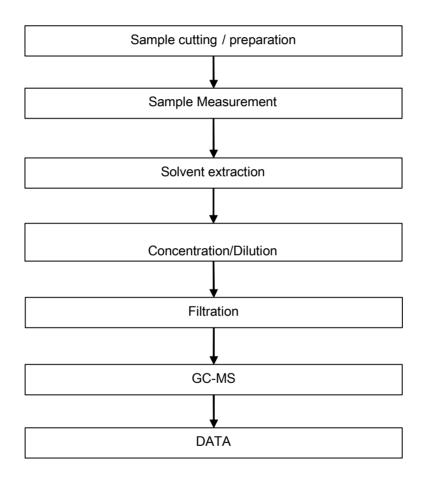
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HBCDD Testing Flow Chart





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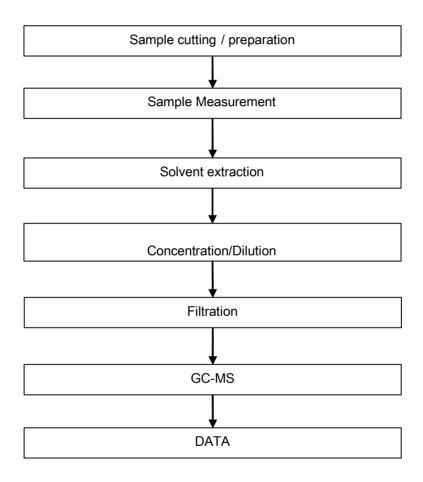
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PAHs Testing Flow Chart





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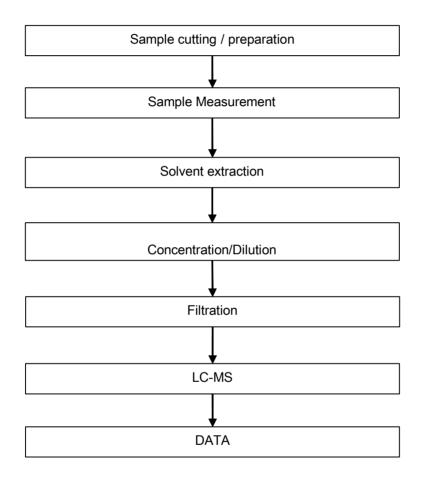
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PFOA / PFOS Testing Flow Chart





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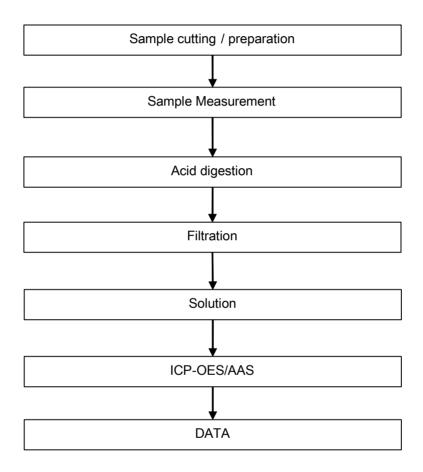
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Elementary Testing Flow Chart





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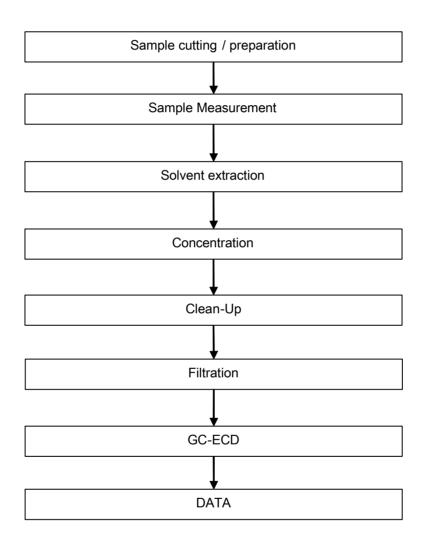
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SCCP/MCCP/LCCP Testing Flow Chart





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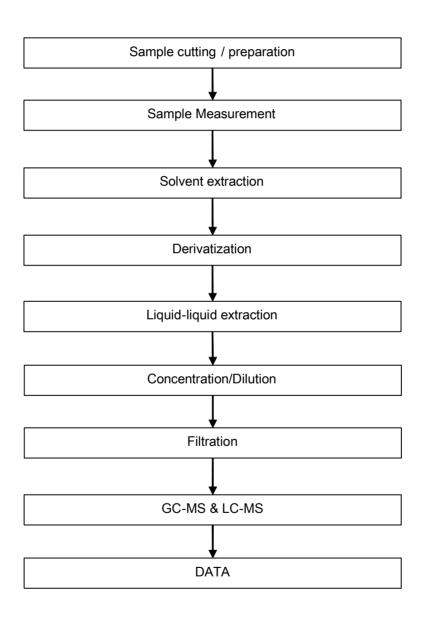


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TBBP-A Testing Flow Chart





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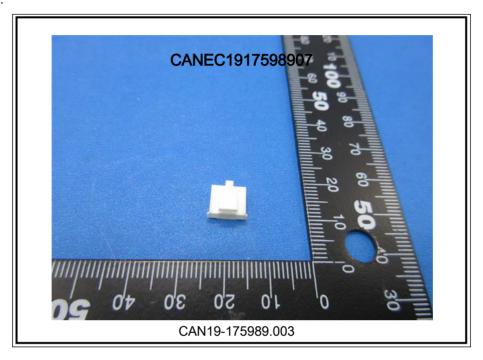


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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC1921650116 Date: 13 Nov 2019 Page 1 of 8

SHENGLAN TECHNOLOGY CO.,LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Phosphor copper nickel plating tin-plated terminal

CP19-059002 - SZ SGS Job No.:

Model No.: 12001

Client Ref. Info.: PLEASE SEE REMARK

Date of Sample Received: 04 Nov 2019

04 Nov 2019 - 12 Nov 2019 Testing Period:

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory

Yorgyu Xie



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN19-216501.006 Silvery metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	9
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

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Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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Elementary Analysis

Test Method: SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method

3050B:1996), analysis was performed by ICP-OES.

 Test Item(s)
 Unit
 MDL
 006

 Beryllium (Be)
 mg/kg
 5
 ND

Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonates (PFOS)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS) [^]	-	μg/m²	1.0	ND

Notes:

^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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REMARK

10001、10500、10800、11001、11002、11003、11004、11005、11006、11007、11008、11201、 11202、11204、11250、11251、11252、11253、11254、11255、11256、11257、11258、11259、 11270、11500、11501、11502、11503、11508、11800、11801、12001、12002、12003、12004、 12005、12006、12007、12008、12009、12010、12011、12012、12013、12014、12015、12016、 12017、12018、12501、12502、12503、12504、12505、12506、12508、12509、12540、12541、 12542、12543、12544、12545、12546、12547、12548、12549、13402、13502、13601、13961、 13962、13963、14000、15001、15002、15080、17921、20001、20501、20502、20503、20602、 20800、20803、21001、21251、21501、21611、21811、21813、21814、21816、21817、21818、 21819、22001、22501、32001、33001、33002、34201、34202、35401、34502、35081、35082、 36201、36202、40301、40302、40303、40305、40306、40501、40502、40503、40504、40505、 40506、40507、40508、40513、40536、40559、40561、40562、40583、40584、40586、41001、 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50501、50601、50602、50801、50802、51001、51050、51271、51272、51274、51275、 51276、51277、51278、51279、51280、52001、52002、52003、52004、52005、52006、 52041、52042、52401、52501、52502、52503、52504、54003、54301、55001、60000、 60001、60100、61001、61002、61003、61004、61005、61006、61007、61008、61009、 61010、61013、61100、61270、62001、62291、62771、62772、63100、64001、64100、 65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、70500、 70600、70801、70901、70910、71008、71101、72001、72007、72008、72010、72101、 81290、81290、LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、 TNDA3、JTHA8、SAF85、UAHA2、TNA11、TNDA3、RJCA9、RJHA6、DSB11、MCB11、UAB11、 WFB11、WTB11、RJB11、HDB11、HDB12、HDB13、UCB11、UBB1B、UBB11、UAB16、UADB8、 JAB11、YB、TP、MCMBE1、UMB1B、RJMAE2、BUA0CB、BUA0CB、UCMAJ1、BS0130、 RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1、TNTAE1、UCMAJ1、TNTBT3、9001、9002、5000102、BT035210、THREE IN ONE、 FOUR IN ONE, USB, HDMI, RJ, 0308, XSBO, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO, OEM, TNAOPO, SCA, TUAOPH, SUASO2, AWDANW, AWDCIW, AWDATB, AHFANB, TNTBC1、TNB12、TNKBG1/2/3/4、UBB14、US90、HE103A、BCO、WUSF5526、UBDU2、 UBMBS1/2、BB0、BPO、HD9A、PIN、TUA0PX、6500、BS0261、B0032、BP0156、BP0237、 BT035210、HP HS、N85、QB140、UC、Charging gun、BB0158、B0026、SA96、SA95、U1B、 AT89、TN、UBB、BAB11-00BDL1XXL-H、M0143-CA-XX、M0142-CA-XX、HDMAC1XNA-R、 HDMAC2XNA-R、BM0249-NL-BK、BM0248-NL-BK、BB0152-XX-XX Phosphor copper nickel plating tin-plated pin needle



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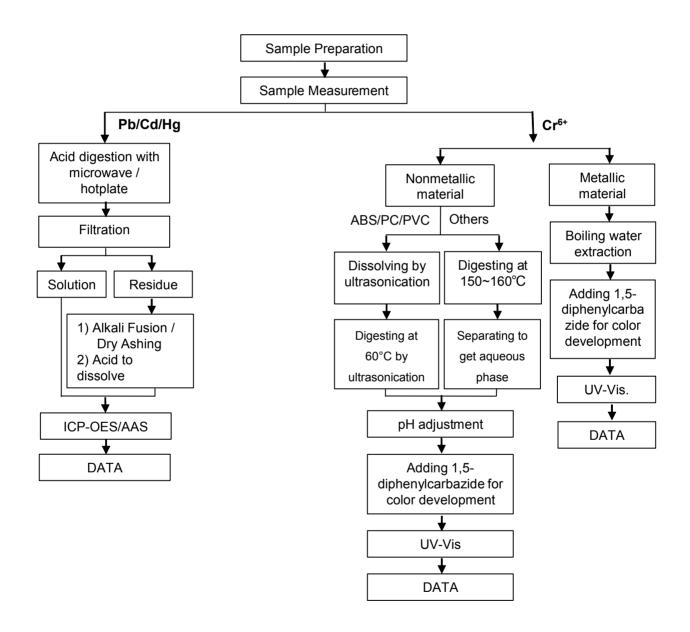
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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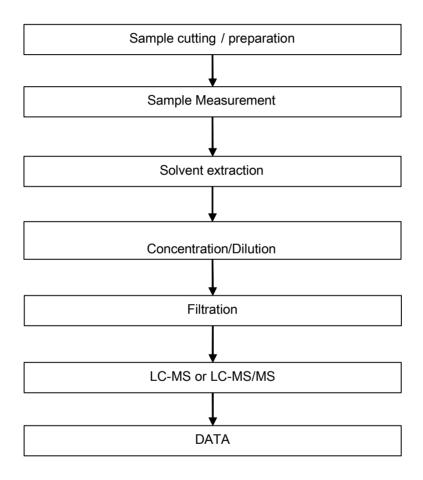
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PFOA / PFOS Testing Flow Chart





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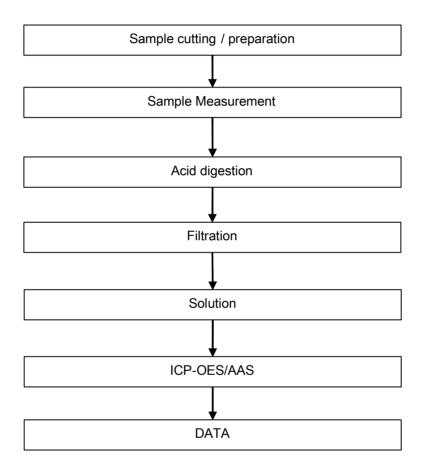
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Elementary Testing Flow Chart





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Sample photo:



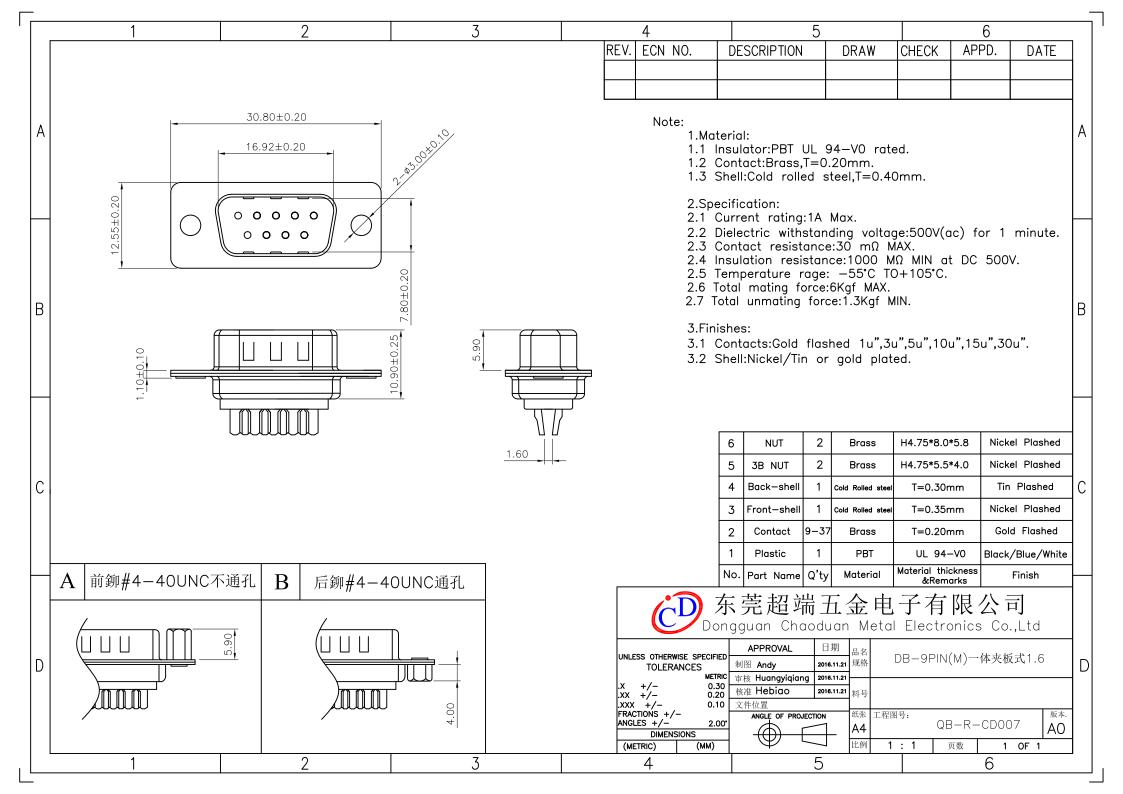
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Plastics - Component

See General Information for Plastics - Component

DONGGUAN BUNCH PLASTICS TECHNOLOGY CO LTD

E361519

Langzhou Industrial Zone

No2 Rd Changping Town

Dongguan, Guangdong 523589 CHINA

									н	D	
		Min.		Н	н		RTI		٧	4	С
		Thk	Flame	W	Α	Elec	Med	h	T	9	T
Material Dsg	Color	mm	Class	I	1		Imp	Str	R	5	1
Polybutylene Terephthalate	(PBT), glass reinfor	ced, furn	ished as pe	llets.		QC 95			59		A ^c
F530-15	NC, BK	1,0	V-0	- 5	4	75	75	75	+	×	- 3
		3,7	V-0	- 5		75	75	75	2		
Polybutylene Terephthalate	(PBT), furnished as	pieces.							71		
PBTVO+GF 6830-15	NC, WT, BK	1.6	V-0	18	*	75	75	75		*	
	ALL	3.0	V-0	E	×	75	75	75	e e		

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Test Report No. CANEC1900481901 Date: 15 Jan 2019 Page 1 of 4

FOSHAN SHUNDA ZIHE TRADE CO.,LTD
LUZHOU LNDUSTRIAL DEVELOPMENT ZONE,LECONG TOWN, SHUNDE DISTRICT,FOSHAN

The following sample(s) was/were submitted and identified on behalf of the clients as: SPCC

SGS Job No.: CP19-001207 - GZ

Client Ref. Info.: Used for:SPCD SPCE SPCEN

Date of Sample Received: 08 Jan 2019

Testing Period: 08 Jan 2019 - 14 Jan 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Zm guan

Approved Signatory

Zuguan



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Test Report No. CANEC1900481901 Date: 15 Jan 2019 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN19-004819.001 Silver-grey metal

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	_	µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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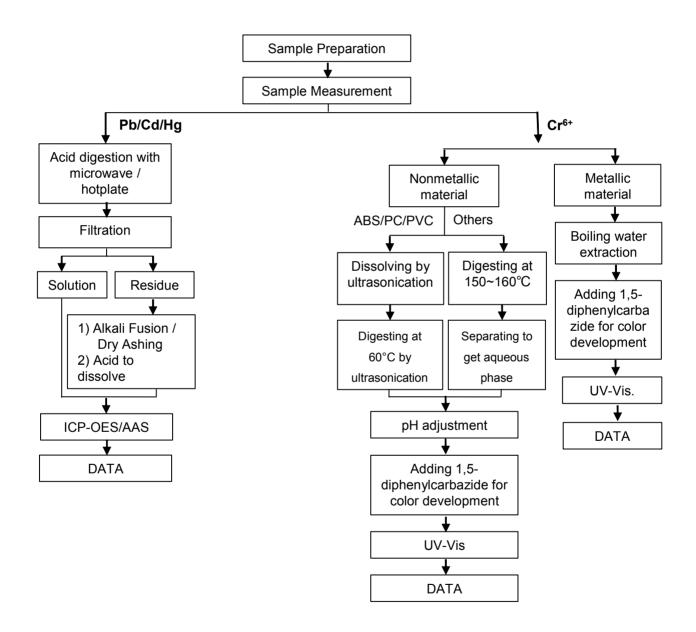
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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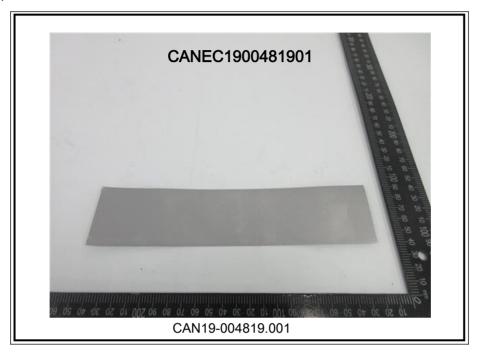


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Date: 15 Jan 2019

Sample photo:



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No. CANEC1900481903

Date: 15 Jan 2019

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FOSHAN SHUNDA ZIHE TRADE CO.,LTD LUZHOU LNDUSTRIAL DEVELOPMENT ZONE, LECONG TOWN, SHUNDE DISTRICT, FOSHAN

The following sample(s) was/were submitted and identified on behalf of the clients as: SPCC

CP19-001207 - GZ SGS Job No.:

Client Ref. Info. : Used for:SPCD SPCE SPCEN

Date of Sample Received: 08 Jan 2019

Testing Period: 08 Jan 2019 - 14 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

> (i)Sixty (60) inorganic substances and additional eleven (11) organic metallic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zuguan

Zm guan

Approved Signatory



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Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description** CAN19-004819.001 SN₁ Silver-grey metal

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, Analyzed by ICP-OES, UV-VIS.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	Cobalt dichloride*	7646-79-9	0.005
I	2	Diarsenic pentaoxide*	1303-28-2	0.005
I	3	Diarsenic trioxide*	1327-53-3	0.005
I	4	Lead hydrogen arsenate*	7784-40-9	0.005
I	5	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	6	Triethyl arsenate*	15606-95-8	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
П	8	Lead chromate*	7758-97-6	0.005
П	9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
Ш	10	Ammonium dichromate*	7789-09-5	0.005
III	11	Boric acid*	10043-35-3, 11113-50-1	0.005
≡	12	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
Ш	13	Potassium chromate*	7789-00-6	0.005
III	14	Potassium dichromate*	7778-50-9	0.005
III	15	Sodium chromate*	7775-11-3	0.005
III	16	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	17	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005
IV	18	Chromium trioxide*	1333-82-0	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	19	Cobalt(II) carbonate*	513-79-1	0.005
IV	20	Cobalt(II) diacetate*	71-48-7	0.005
IV	21	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	22	Cobalt(II) sulphate*	10124-43-3	0.005
V	23	Strontium chromate*	7789-06-2	0.005
VI	24	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	25	Arsenic acid*	7778-39-4	0.005
VI	26	Calcium arsenate*	7778-44-1	0.005
VI	27	Dichromium tris(chromate) *	24613-89-6	0.005
VI	28	Lead diazide, Lead azide*	13424-46-9	0.005
VI	29	Lead dipicrate*	6477-64-1	0.005
VI	30	Lead styphnate*	15245-44-0	0.005
VI	31	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	32	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	33	Trilead diarsenate*	3687-31-8	0.005
VI	34	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	35	Diboron trioxide*	1303-86-2	0.005
VII	36	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	37	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	38	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	39	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	40	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	41	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	42	Lead cyanamidate*	20837-86-9	0.005
VIII	43	Lead dinitrate*	10099-74-8	0.005
VIII	44	Lead monoxide*	1317-36-8	0.005
VIII	45	Lead oxide sulfate*	12036-76-9	0.005
VIII	46	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	47	Lead titanium trioxide*	12060-00-3	0.005
VIII	48	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	49	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	50	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	51	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	52	Silicic acid, lead salt*	11120-22-2	0.005
VIII	53	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	54	Tetraethyllead*	78-00-2	0.005
VIII	55	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	56	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	57	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	58	Cadmium oxide*	1306-19-0	0.005
IX	59	Cadmium*	7440-43-9	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
Х	60	Cadmium sulphide*	1306-23-6	0.005
Х	61	Lead di(acetate)*	301-04-2	0.005
ΧI	62	Cadmium chloride*	10108-64-2	0.005
ΧI	63	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	64	Sodium peroxometaborate*	7632-04-4	0.005
XII	65	Cadmium fluoride*	7790-79-6	0.005
XII	66	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XVIII	67	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	68	Cadmium carbonate*	513-78-0	0.005
XVIII	69	Cadmium hydroxide*	21041-95-2	0.005
XIX	70	Disodium octaborate*	12008-41-2	0.005
XIX	71	Lead*	7439-92-1	0.005



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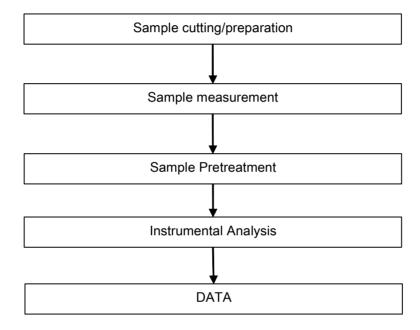
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ATTACHMENTS

SVHC Testing Flow Chart





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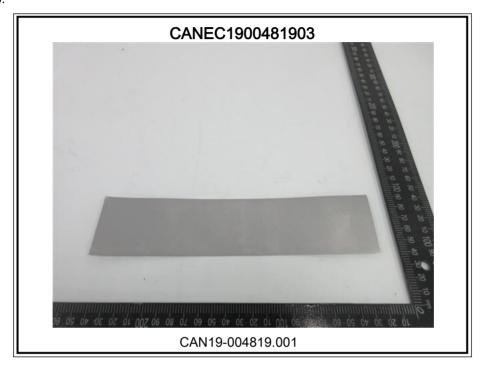


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Sample photo:



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Test Report No. SZXEC1900066305 Date: 16 Jan 2019 Page 1 of 5

SHENZHEN XIONG YUN TECHNOLOGY CO., LTD. (15 WORKSHOPS, XIONG YUN ELECTROPLATING)
FOURTH FLOOR, BUILDING B, MIAO YINGHUI INDUSTRIAL PARK, XIXIANG STREET, BAOAN DISTRICT,
SHENZHEN CITY.

The following sample(s) was/were submitted and identified on behalf of the clients as : METAL NICKEL PLATING

SGS Job No.: RP19-000700 - SZ

Date of Sample Received: 11 Jan 2019

Testing Period: 11 Jan 2019 - 16 Jan 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan

Approved Signatory



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Test Report No. SZXEC1900066305 Date: 16 Jan 2019 Page 2 of 5

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SZX19-000663.003 Silver-gray plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	65
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19000663	Date: 1	6 Jan 2019	Page 3 of 5	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μ g/cm2). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm2 and 0.13 μ g/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. SZXEC1900066305

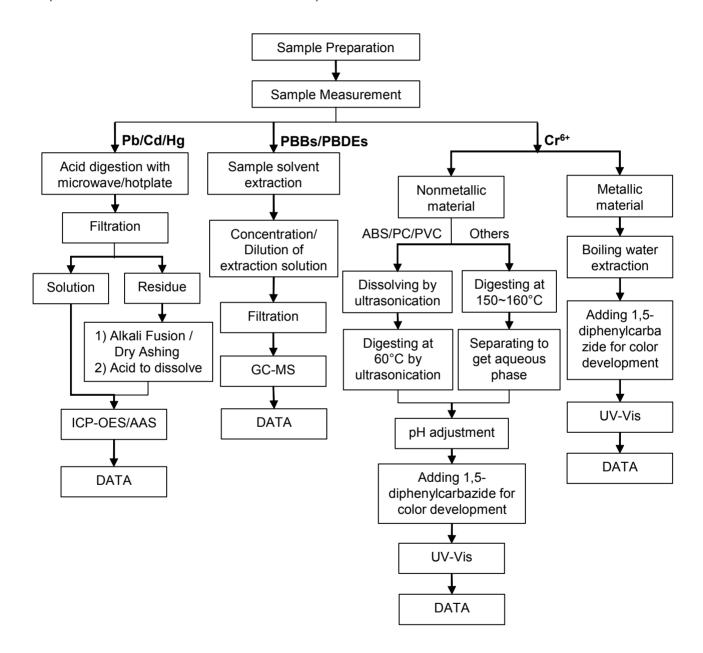
Page 4 of 5

Date: 16 Jan 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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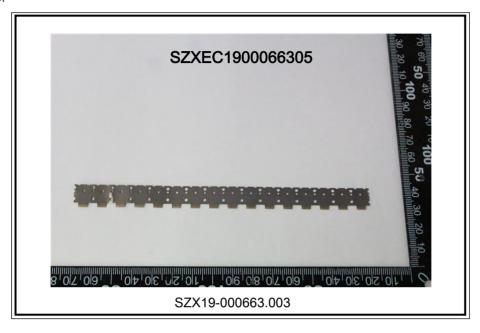


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Date: 16 Jan 2019

Sample photo:



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Test Report No. SZXEC1900066303 Date: 16 Jan 2019 Page 1 of 6

SHENZHEN XIONG YUN TECHNOLOGY CO., LTD. (15 WORKSHOPS, XIONG YUN ELECTROPLATING) FOURTH FLOOR, BUILDING B, MIAO YINGHUI INDUSTRIAL PARK, XIXIANG STREET, BAOAN DISTRICT, SHENZHEN CITY.

The following sample(s) was/were submitted and identified on behalf of the clients as: METAL GILDING

SGS Job No.: RP19-000700 - SZ

Date of Sample Received: 11 Jan 2019

Testing Period: 11 Jan 2019 - 16 Jan 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan

Approved Signatory



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Test Report No. SZXEC1900066303 Date: 16 Jan 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SZX19-000663.002 Silver-gray&golden plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	42
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19000663	03	Date: 16 Jan 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7,25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μ g/cm2). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm2 and 0.13 μ g/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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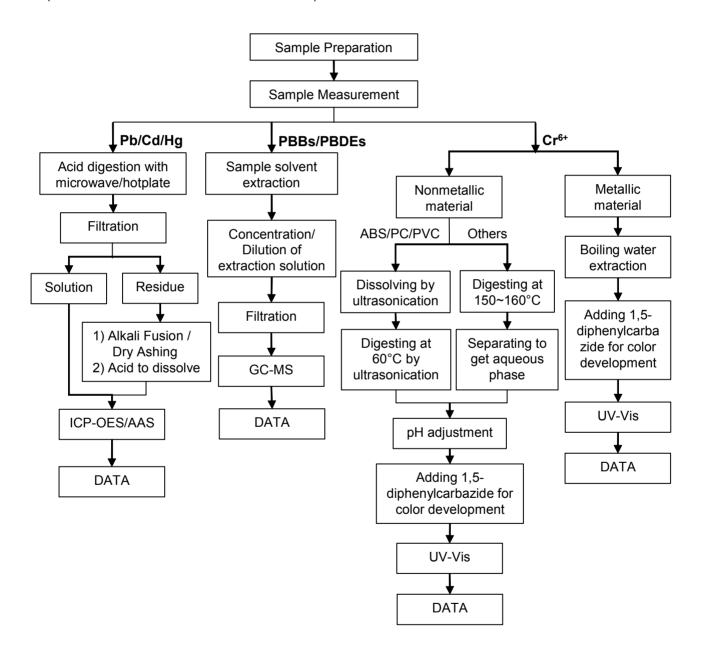
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Date: 16 Jan 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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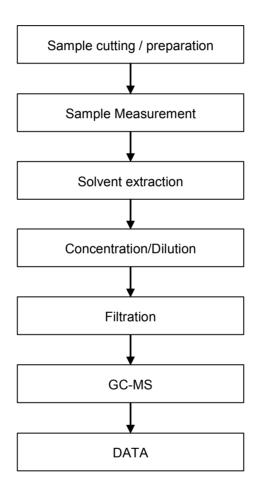
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Phthalates Testing Flow Chart





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Date: 16 Jan 2019

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Test Report No. SZXEC1900066301 Date: 16 Jan 2019 Page 1 of 5

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The following sample(s) was/were submitted and identified on behalf of the clients as: METAL TIN PLATING

SGS Job No.: RP19-000700 - SZ

Date of Sample Received: 11 Jan 2019

Testing Period: 11 Jan 2019 - 16 Jan 2019

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Approved Signatory



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Test Report No. SZXEC1900066301 Date: 16 Jan 2019 Page 2 of 5

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description**

> SN₁ SZX19-000663.001 Silvery plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	62
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19000663	01	Date: 1	6 Jan 2019	Page 3 of 5
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm2 and 0.13 μ g/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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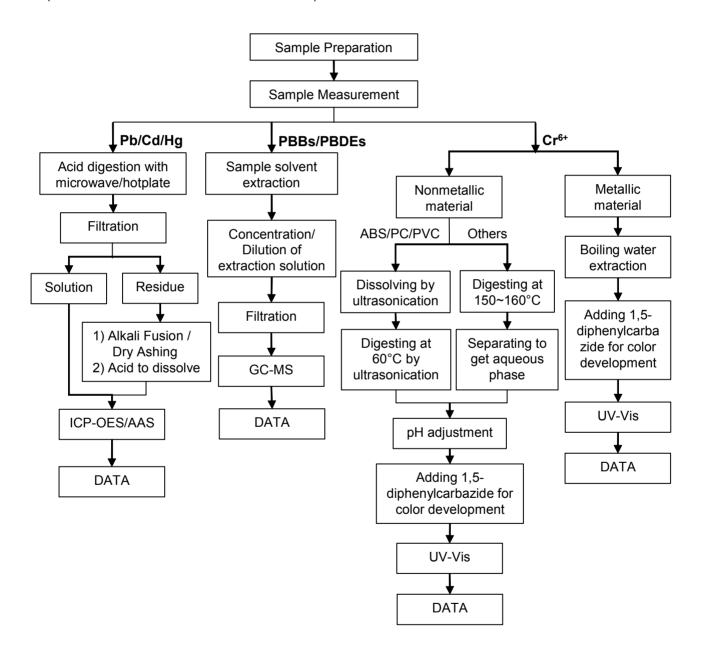
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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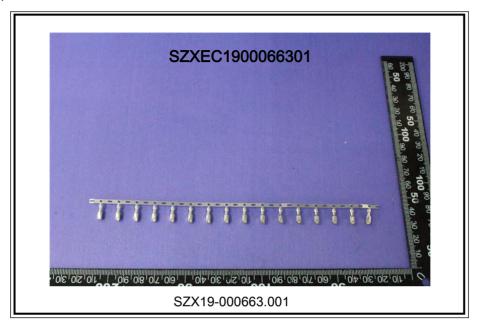


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Sample photo:



SGS authenticate the photo on original report only

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DONGGUAN BUNCH PLASTICS TECHNOLOGY CO.,LTD.

THE INDUSTRIAL ROAD TWO, LANGZHOU DISTRICT, CHANGPING TOWN, DONGGUAN CITY **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: PBTV0+GF BK (BK NC BLUE GREEN RED GREY YELLOW) MIXTURE

SGS Job No.: CP19-004038 - GZ

Date of Sample Received: 23 Jan 2019

Testing Period: 23 Jan 2019 - 30 Jan 2019

Test Requested: As requested by client, SVHC screening is performed according to:

> (i) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on, Sep 4, 2018 regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Results: Please refer to next page(s).

Summary:

According to the ruling of the Court of Justice of the European Union on the definition of **PASS** an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the articles of the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Jiang

Jenny Jiang Approved Signatory



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Date: 30 Jan 2019

Remark:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crsposition-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description** CAN19-015861.001 SN₁ Dk-green plastic

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-02, Analyzed by GC-MSand HPLC-DAD/MS.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes:

- 1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

NA^ = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XX	1	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
xx	2	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	3	Benzo[k]fluoranthene	207-08-9	0.050
XX	4	Fluoranthene	206-44-0	0.050
XX	5	Phenanthrene	85-01-8	0.050
XX	6	Pyrene	129-00-0	0.050



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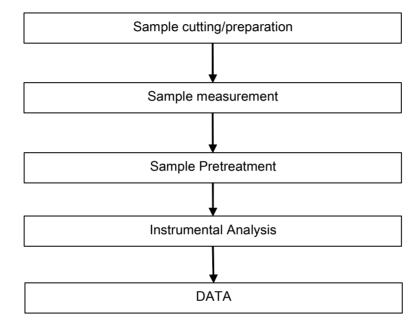
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SVHC Testing Flow Chart





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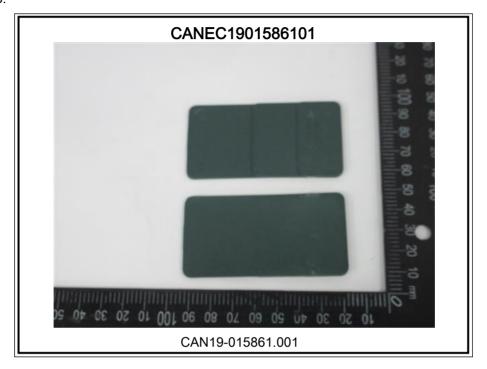
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No. CANEC1901586101

Date: 30 Jan 2019 Page 8 of 8

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC1900351602 Date: 10 Jan 2019 Page 1 of 6

DONGGUAN BUNCH PLASTICS TECHNOLOGY CO.,LTD.

THE INDUSTRIAL ROAD TWO, LANGZHOU DISTRICT, CHANGPING TOWN, DONGGUAN CITY **CHINA**

The following sample(s) was/were submitted and identified on behalf of the clients as: PBTV0+GF BK (NC BK BLUE GREEN RED GREY YELLOW) MIXTURE

SGS Job No.: CP19-000910 - GZ

Date of Sample Received : 07 Jan 2019

Testing Period: 07 Jan 2019 - 10 Jan 2019

Selected test(s) as requested by client. Test Requested:

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report No. CANEC1900351602 Date: 10 Jan 2019 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID **Description**

> SN₁ CAN19-003516.002 Dk-green plastic sheet

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	16
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19003516	02	Date: 1	10 Jan 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25



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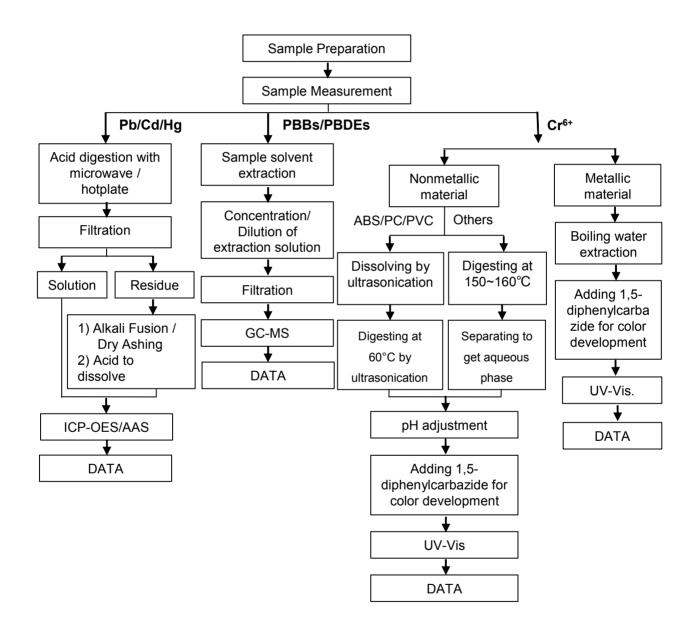
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Date: 10 Jan 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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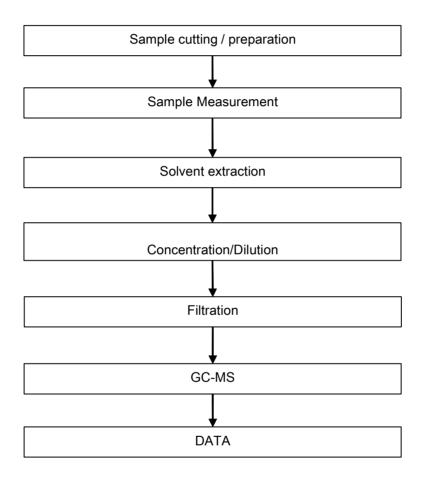
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Phthalates Testing Flow Chart





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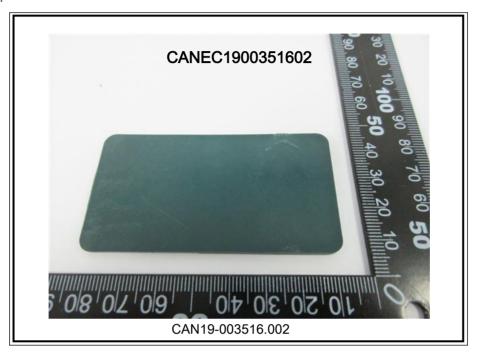


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Sample photo:



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No. CANEC1910449305

Date: 10 Jun 2019

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 ${\tt DONGGUAN\ CITY\ DINGRONG\ METAL\ MATERIAL\ CO., LTD.}$

BUILDING B, NIGU ROAD, SHA AO INDUSTRIAL ZONE, SHUTIAN COMMUNITY, HUMEN TOWN,

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680

SGS Job No.: CP19-029132 - GZ

Date of Sample Received: 03 Jun 2019

Testing Period: 03 Jun 2019 - 10 Jun 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding

Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the

notification of WTO on Feb 7, 2019.

(iii)Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Mar 13, 2019 regarding Regulation (EC) No 1907/2006 concerning the

REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory

yonggu Xie



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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

中国·广州·经济技术开发区科学城科珠路198号

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID **Description**

SN₁ CAN19-104493.001 Brassy metal sheet

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.007	0.005
-	Other tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-

Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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Notes:

- 1.The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- 2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:
- http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx
- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.
- 7. ★ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC,/ = Substances in the Consultation List of SVHC.



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4,3194- 55-6	0.050
1	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
11	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
Ш	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
٧	48	1-methyl-2-pyrrolidone	872-50-4	0.050
٧	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	Ž	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Χ	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Χ	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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Date: 10 Jun 2019

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050
/	199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
1	200	2-methoxyethyl acetate	110-49-6	0.050
/	201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050



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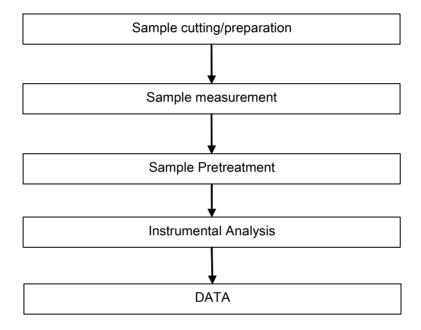
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:



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Test Report No. CANEC1910449301 Date: 10 Jun 2019 Page 1 of 6

DONGGUAN CITY DINGRONG METAL MATERIAL CO.,LTD.

BUILDING B, NIGU ROAD, SHA AO INDUSTRIAL ZONE, SHUTIAN COMMUNITY, HUMEN TOWN,

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680

SGS Job No.: CP19-029132 - GZ

Date of Sample Received: 03 Jun 2019

Testing Period: 03 Jun 2019 - 10 Jun 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Based on the performed tests on submitted sample(s), the results of Lead, Conclusion:

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Approved Signatory

Yorgyu Xie



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Test Report Date: 10 Jun 2019 No. CANEC1910449301 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN19-104493.001 Brassy metal sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	64
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 f (86–20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC19104493	801	Date: 1	10 Jun 2019	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. CANEC1910449301

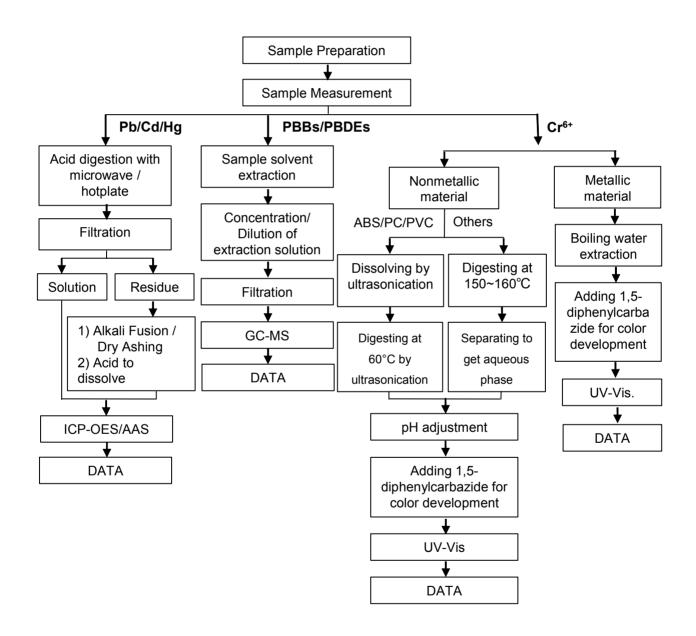
Page 4 of 6

Date: 10 Jun 2019

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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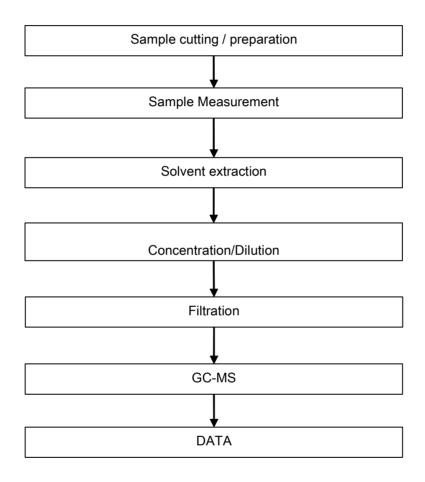
No. CANEC1910449301

Date: 10 Jun 2019

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Phthalates Testing Flow Chart





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Date: 10 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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HungYuanShuo Electronic Accessories CO.,LTD

产品规格承认书

版本: A/1

产品名称	H无卤环保热缩套管	供应商代码	
规格/型号	所有系列	客户编号	

供應商確認(弘源碩電子材料有限公司)

拟制/日期	审核/日期
范松林 / 2012年1月15日	宋大春 / 2012年1月15日

客戶確認

客户批准/日期	

公司地址:深圳市寶安區沙井街道辦中心路匯盈商務大廈十三樓1301,1302室

邮 编: 518104

电 话: 0755-29308589

传 真: 0755-29308085

网 址: www.lyc-hys.com

1 主题内容与适用范围

本承认书规定了无卤环保阻燃型热收缩套管的技术要求、试验方法、检验规则以及包装等内容。本承认书适用于电线连接、焊点保护、电线端部处理、线束及电子元器件的防护和绝缘处理、健身器材零部件和钢结构表面防护、相关产品的防锈和防腐处理、电线和其它产品的标识等用途的无卤阻燃型热收缩套管。

2 引用标准

Standard for Extruded Electrical Tubing UL 224.

3 术语

3. 1热收缩材料

以可塑性线型高聚物或高聚物合金为基材,用高能辐照方法或化学方法使聚合物分子链部分交 联成为网状结构获得弹性"记忆效应",经加热扩张至特定尺寸后冷却定型,使用时加热到适当温 度后自行收缩到扩张前的形状和尺寸,这种材料称为热收缩材料。

3. 2热收缩套管

将上述高聚物或高聚物合金通过挤出成型得到规定尺寸的管状中间产品,辐照(或化学)交联 后加热扩张,冷却定型得到的具有一定尺寸的管状产品成为热收缩套管。

3. 3 绿色 RSFR 无卤阻燃热收缩材料

在热收缩材料中添加一定量的不含卤素、重金属等对环境有害的阻燃剂,使之符合一定阻燃要求和环保要求,则成为绿色 RSFR 无卤阻燃热收缩材料。

4 技术要求

- 4. 1 使用条件
- 4. 1. 1 连续使用的环境温度: -55℃~125℃。
- 4. 1. 2 可在酸、碱条件下长期使用。
- 4.1.3 可在环保要求严格的条件下长期使用。
- 4. 2 表观要求
- 4. 2. 1 制品表面无明显划伤、凹凸不平、竹节状缺陷。
- 4. 2. 2 表面光洁、无油污、无积尘。
- 4. 2. 3 印字清晰、无重影、无多余墨迹、无印不全或打滑现象。
- 4. 3 热收缩性能
- 4. 3. 1 起始收缩温度 70 °C ; 超薄型完全收缩温度 110 °C ,普通型完全收缩温度 125 °C 。 按照 UL224 标准,完全收缩到位温度为 200 °C , 3 分钟 。
- 4. 3. 2 纵向收缩率不超过±5%
- 4. 4 材料的性能特性

材料的理化性能符合表1规定。

4. 5 收缩套管的产品尺寸

无卤阻燃型薄壁热收缩套管的产品尺寸符合表 2 规定,无卤阻燃型热收缩套管的产品尺寸符合表 3 规定。

4. 6 颜色

标准颜色:黑色、红色、蓝色、黄色、绿色、白色,其它颜色如紫色、灰色、棕色等可根据客户要求 定做。

4.7 使用方法

在使用过程中,为了保证热缩套管能完全收缩到位,使用强制鼓风式恒温烘箱,并将收缩温度 控制在125℃。特别注意,当把热缩套管放入烘箱过程中,烘箱温度有一下降趋势,要达到设定温度 需要一定的时间;同时,在烘箱内通过热空气循环流动使热缩套管达到最终收缩温度同样需要一定

的时间。因此,必须在烘箱实际温度达到设定温度并保持该温度3分钟左右,热缩套管才能完全收缩到位。

表 1 无卤阻燃型热收缩套管的性能特性

Int. Ale			MHAS IS NOT	Int. Ala Ha I —	
	性能		测试方法	性能指标	
物理性能	拉伸强度/MPa		GB/T1040	≥10.4	
	断	裂伸长率/%	GB/T1040	≥200	
	热老化	后拉伸强度/MPa	UL224; 158℃×168hr	≥7.3	
	热老化	后断裂伸长率/%	UL224; 158℃×168hr	≥100	
		耐热冲击	UL224; 250°C×4hr	不发粘,不龟裂	
		抗冷弯曲	UL224; -30℃×1hr	不龟裂	
电气性能	耐压	300V	UL224	2500V 不击穿	
		600V	UL224	2500V 不击穿	
	击线	穿强度/KV/mm	GB/T1408	≥15	
	体积	R电阻率/Ω•cm	GB/T1410	\geqslant 1×10 ¹⁴	
化学性能	铜安定性		UL224; 158℃×168hr	PASS	
	抗腐蚀性		抗腐蚀性 UL224; 158℃×168hr		PASS
		阻燃性	UL224 VW-1		

表 2 H-CB 管 (无卤阻燃型薄壁热收缩套管)的产品尺寸

规格	收缩前尺	寸 (mm)	收缩后月	尺寸 (mm)	旧包装	新包裝	适用范围
(mm)	内径	壁厚	内径	壁厚	米/盘	米/盘	(mm)
Ф 0. 6СВ	0.90 ± 0.2	0.13 ± 0.05	≤ 0. 40	0.20 ± 0.10	200	400	0.4~0.7
Ф 0. 8СВ	1. 10 ± 0.2	0.13 ± 0.05	≤ 0.50	0.20 ± 0.10	200	400	0.6~0.8
Ф1.0СВ	1.40 ± 0.2	0.13 ± 0.05	≤ 0.65	0.20 ± 0.10	200	400	0.7~1.0
Ф1.5СВ	1.90 ± 0.2	0.13 ± 0.05	≤ 0.85	0.20 ± 0.10	200	400	$0.9 \sim 1.4$
Ф2.0СВ	2.40 ± 0.2	0.13 ± 0.05	≤1.00	0.22 ± 0.10	200	400	$1.1 \sim 1.8$
Ф2.5СВ	2.90 ± 0.2	0.13 ± 0.05	≤1.30	0.25 ± 0.10	200	400	1.4~2.3
Ф3.0СВ	3.40 ± 0.2	0.13 ± 0.05	≤ 1.50	0.28 ± 0.10	200	400	$1.6 \sim 2.7$
Ф 3. 5СВ	3.90 ± 0.2	0.13 ± 0.05	≤1.80	0.28 ± 0.10	200	400	$1.9 \sim 3.2$
Ф 4. ОСВ	4.40 ± 0.2	0.15 ± 0.05	≤ 2.00	0.30 ± 0.10	200	400	$2.1 \sim 3.6$
Ф4.5СВ	4.90 ± 0.2	0.15 ± 0.05	≤ 2. 30	0.30 ± 0.10	100	200	2.4~4.0
Ф 5. ОСВ	5.50 ± 0.2	0.15 ± 0.05	≤ 2.5	0.32 ± 0.10	100	200	$2.6 \sim 4.5$
Ф 6. ОСВ	6.50 ± 0.2	0.15 ± 0.05	≤ 3.0	0.32 ± 0.10	100	200	3.1~5.4
Ф 7СВ	7.50 \pm 0.3	0.15 ± 0.05	≤ 3.5	0.32 ± 0.10	200	200	3.7~6.3
Ф8СВ	8.50 ± 0.3	0.15 ± 0.05	≤ 4. 0	0.32 ± 0.10	200	200	4.2~7.2
Ф 9СВ	9.50 ± 0.3	0.15 ± 0.05	≤ 4. 5	0.35 ± 0.10	200	200	4.7~8.0
Ф 10СВ	10.5 \pm 0.3	0.15 ± 0.05	≤ 5. 0	0.35 ± 0.10	200	200	5.2~9.0

Ф11СВ	11.5±0.3	0.18 ± 0.05	≤ 5. 5	0.40 ± 0.10	200	200	5.7~10.0
Ф 12СВ	12.5 ± 0.3	0.20 ± 0.05	≤6. 0	0.40 ± 0.10	200	200	6.2~11.0
Ф13СВ	13.5 ± 0.3	0.20 ± 0.05	≤ 6. 5	0.40 ± 0.10	200	200	6.7~12.0
Ф 14СВ	14.5 ± 0.3	0.20 ± 0.05	≤ 7. 0	0.40 ± 0.10	200	200	7.3~13.0
Ф 15СВ	15.5 \pm 0.4	0.20 ± 0.05	≤ 7. 5	0.40 ± 0.10	200	200	7.8~14.0
Ф 16СВ	16.5 ± 0.4	0.22 ± 0.05	≪8.0	0.40 ± 0.10	200	200	8.3~15.8
Ф17СВ	17.5 ± 0.4	0.22 ± 0.05	≪8.5	0.40 ± 0.10	200	200	8.8~16.0
Ф 18СВ	18.5 ± 0.4	0.22 ± 0.05	≤ 9. 0	0.42 ± 0.10	200	200	9.3~17.0
Ф 20СВ	20.5 ± 0.5	0.25 ± 0.05	≤ 10.0	0.45 ± 0.10	200	200	10.5~19.0
Ф 22СВ	22.5 ± 0.5	0.25 ± 0.05	≤11.0	0.45 ± 0.10	200	200	$11.5\sim20.5$
Ф 25СВ	25.5 ± 0.5	0.25 ± 0.05	≤ 12. 5	0.45 ± 0.10	100	100	13.0~24.0

E203950 **(Σ)** WOER RSFR(CB) TUBE 125°C VW-1 H (Φ 9CB)

表3 H管(无卤阻燃型热收缩套管)的产品尺寸要求

规格	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
(mm)	 内径	壁厚	最大内径	壁厚	米/盘	米/盘	
Ф0.6	0.9 ± 0.2	型序 0.18±0.05	取入内在 ≤0.40	<u> </u>	200	400	$\frac{\text{(mm)}}{0.4 \sim 0.7}$
Ф0.8	1.1 ± 0.2	0.18 ± 0.05	≤0.50	0.33 ± 0.10	200	400	0.6~0.8
Ф1.0	1.5 ± 0.2	0.20 ± 0.05	≤0.65	0.36 ± 0.10	200	400	0.75~0.9
Ф1.5	2.0 ± 0.2	0.20 ± 0.05	≤0.85	0.36 ± 0.10	200	400	0.95~1.4
Ф2.0	2.5 ± 0.2	0.20 ± 0.05	≤1.00	0.45 ± 0.10	200	400	1.1~1.8
Ф2.5	3.0 ± 0.2	0.20 ± 0.05	≤1.30	0.45 ± 0.10	200	400	1.35~2.3
Ф3.0	3.5 ± 0.2	0.23 ± 0.05	≤1.50	0.45 ± 0.10	200	400	1.6~2.7
Ф3.5	4.0 ± 0.2	0.23 ± 0.05	≤1.80	0.45 ± 0.10	200	400	1.85~3.2
Ф4.0	4.5 ± 0.2	0.25 ± 0.05	€2.00	0.45 ± 0.10	200	400	2.1~3.6
Ф4.5	5.0 ± 0.2	0.28 ± 0.05	€2.30	0.56 ± 0.10	100	200	2.35~4.0
Ф5.0	5.5 ± 0.2	0.28 ± 0.05	≤2.50	0.56 ± 0.10	100	200	2.6~4.5
Ф6.0	6.5 \pm 0.2	0.28 ± 0.05	≤3.00	0.56 ± 0.10	100	200	3.1~5.4
Ф7.0	7.5 ± 0.3	0.30 ± 0.05	≤3.50	0.56 ± 0.10	100	100	3.7~6.3
Ф8.0	8.5 ± 0.3	0.30 ± 0.08	≤ 4.00	0.56 ± 0.10	100	100	4.2~7.2
Ф9.0	9.5 ± 0.3	0.30 ± 0.08	≤ 4. 50	0.56 ± 0.10	100	100	4.7~8.0
Ф10	10.5 \pm 0.3	0.30 ± 0.08	≤ 5. 00	0.56 ± 0.10	100	100	5. 2~9. 0
Ф11	11.5 \pm 0.3	0.30 ± 0.08	≤ 5. 50	0.56 ± 0.10	100	100	5.7~10
Ф12	12.5 \pm 0.3	0.30 ± 0.08	≤6.00	0.56 ± 0.10	100	100	6.2~11
Ф13	13.5 ± 0.3	0.35 ± 0.08	≤ 6. 50	0.56 ± 0.10	100	100	6.7~12
Ф14	14.5 ± 0.3	0.35 ± 0.10	€7.00	0.70 ± 0.10	100	100	7.3~13
Ф15	15. 5 ± 0.4	0.35 ± 0.10	≤ 7. 50	0.70 ± 0.10	100	100	7.8~14

规格 (mm)	收缩前尺	寸 (mm)	收缩后。	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
Ф16	16.5 \pm 0.4	0.35 ± 0.10	≤8.00	0.70 ± 0.10	100	100	8.3~15
Ф17	17.5 ± 0.4	0.35 ± 0.10	≤8.50	0.70 ± 0.10	100	100	8.8~16
Ф18	19.0 ± 0.5	0.35 ± 0.10	≤9.00	0.70 ± 0.10	100	100	9.3~17
Ф20	22.0 ± 0.5	0.40 ± 0.10	≤10.00	0.83 ± 0.10	100	100	10.4~19
Ф22	24.0 ± 0.5	0.40 ± 0.12	≤11.00	0.83 ± 0.15	100	100	11.4~21
Ф25	26.0 ± 0.5	0.45 ± 0.12	≤12.50	0.90 ± 0.15	50	50	12.8~24
Ф28	29.0 ± 0.5	0.45 ± 0.12	≤14.00	0.90 ± 0.15	50	50	14.4~29
Ф30	31.5 ± 1.0	0.45 ± 0.12	≤15.00	1.00 ± 0.15	50	50	16~29
Ф35	36.5 ± 1.0	0.45 ± 0.12	≤ 17. 50	1.00 ± 0.15	50	50	18~34
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤ 20. 00	1.00 ± 0.15	50	50	21~39
Ф 45	46.5 ± 1.0	0.50 ± 0.15	≤22.50	1.00 ± 0.20	25	25	23.5~44
Ф 50	≥50	0.50 ± 0.15	≤ 25. 00	1.10 ± 0.20	25	25	26~49

E203950 WOER RSFR-H TUBE 125°C VW-1 H (φ9)

注: Φ30 及以上规格产品默认为 G 管(环保性能符合欧盟 RoHS 2002/95/EC 标准)。如果客户需 H 无卤热缩套管,须在订单上注明。

4.8 环境物质

本承认书承诺不使用以下物质,四大重金属、多溴联苯(PBB)、多溴联苯醚(PBDE)、卤素等通过 SGS 检测。无卤阻燃型热收缩套管的环保特性列于表 4。

- 1. 多氯化联苯(PCB)类
- 2. 多氯化萘 (PCN) 类
- 3. 氯化石蜡
- 4. 灭蚁灵 (Mirex)
- 5. 其它有机氯化合物
- 6. 有机溴化合物-多溴联苯 (PBB)
- 7. 有机溴化合物-多溴联苯醚 (PBDE)
- 8. 有机锡化合物(三丁基锡化合物和三苯基锡化合物)
- 9. 石棉
- 10. 偶氮化合物
- 11. 甲醛

表 4 无卤阻燃型热收缩套管的环保特性

环境物质	含量	测试方法
氟 (F)	≤200PPM	EN 14582 Method B
氯 (C1)	≤900ppm	EN 14582 Method B
溴 (Br)	≤900ppm	EN 14582 Method B
碘 (I)	≤200PPM	EN 14582 Method B

镉 (Cd)	≤5ppm	IEC 62321
铅 (Pb)	≤90ppm	IEC 62321
铬 (Cr ⁶⁺)	≤5ppm	IEC 62321
汞 (Hg)	≤5ppm	IEC 62321
砷 (As)	≤50ppm	EPA 3052
钡 (Ba)	≤1000ppm	EPA 3052
锑(Sb)	≤60ppm	EPA 3052
硒 (Se)	≤25ppm	EPA 3052

备注: 氯(C1) + 溴(Br) <1500ppm

5. 材质证明书

材质证明书

沃尔核材股份有限公司无卤环保型 RSFR-H 热缩套管是一种阻燃型的热收缩套管,组成材料为聚烯烃加适量阻燃剂和助剂。产品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr⁶⁺)、多溴联苯(PBB)、多溴联苯醚(PBDE)等环境物质含量符合日本 SONY-SS-00259 和欧盟 RoHS 2002/95/EC 指令环保要求。其主要成份如下:

原料名称			使用目的	含量	供应商	CAS. NO.
中文	英文	分子式				
聚烯烃	Polyolefin	(CH ₂ CH ₂) n	主剂	50%	北京有机	9002-88-4
氢氧化镁	Magnesium	Mg (OH) ₂	阻燃剂	35%	锦昊辉	1309-42-8
	Hydroxide					
磷系阻燃剂	Phosphorus	(NH_4PO_3) n	阻燃剂	10%	上海海以	7723-14-0
色母粒	Pigment	色母+填充剂	着色剂	5%	华万彩	
油墨	Printing Ink		印字		上海捷信	

6. 技术资料

- (1) UL/cUL 证书
- (2) ISO9001 证书
- (3) IS014001 证书
- (4) ISO/TS16949 证书
- (5) SGS/ITS/CTI 检测报告

弘源碩電子材料有限公司

二零一二年一月十五日



ONLINE CERTIFICATIONS DIRECTORY

YDPU2.E203950 Tubing, Extruded Insulating - Component

Page Bottom

Tubing, Extruded Insulating - Component

See General Information for Tubing, Extruded Insulating - Component

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD

E203950

XINWEI INDUSTRIAL PARK, WOER MANSION NANSHAN DISTRICT, XILI SHENZHEN, GUANGDONG 518052 CHINA

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance C	VW-1 Rated #		
Flexible Heat-Sh	rinkable l	Polyolefin Tub	ing	_			
RSFR	600	125	All except Clear	None	\$		
WKZM-x-yz	600	125	White	None	No		
RSFR-H	600	125	All except Clear	None	Yes		
RSFR(CB)	300	125	All except Clear	None	Yes		
Not Heat-Shrinkable PTFE Tubing							
WF	600	200	Natural	None	Yes		
Heat-Shrinkable Polyolefin Tubing with Meltable Liner							
SBRS	600	125	All except Clear	None	Yes		
Not Heat-Shrinka	Not Heat-Shrinkable Standard Wall Silicone Tubing						
WST-600	600	150	White	None	@		

- x-yz x represents tubing expanded ID, yz represents any alpha and/or numeric combination for internal client code.
- # Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.
- @ VW-1 rated for internal diameter sizes 6.50 15.00 mm only.
- \$ VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container.

Last Updated on 2008-04-30

Questions?

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Page 1 of 7

Report No. A2190096126101003R1

Applicant SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Address WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREER, PINGSHAN

DISTRICT, SHENZHEN, GUANGDONG.

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PE masterbatch- Black

Sample Received Date Apr. 26, 2019

Testing Period Apr. 26, 2019 to Apr. 29, 2019

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent **Test Requested**

> Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Crit Qin

Hill Zheng

Pori Xia

Date

Reviewed by

May 17, 2019

No. R179757340

Technical Manager

sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190096126101003R1

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Report No. A2190096126101003R1 **Test Result(s)**

Page 3 of 7

Tested Item(s)	Result	MDL
Lead(Pb)	36 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



Report No. A2190096126101003R1

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL	
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg	
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg	
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg	
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg	

Sample/Part Description

Black plastic grains

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note:

This testing report revised "Sample Name" based on the original report of No. A2190096126101003. This testing report displaces the original one which was invalid since the date of this testing report released.

37

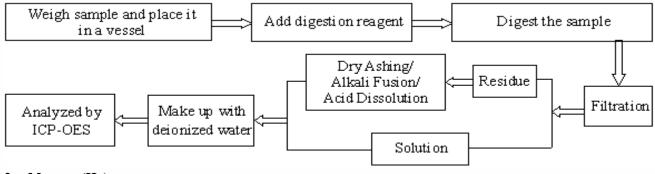


Report No. A2190096126101003R1

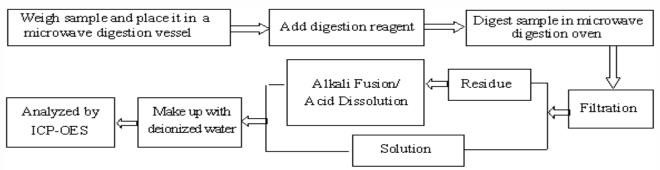
Page 5 of 7

Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



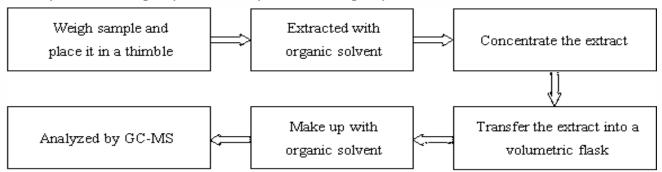
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



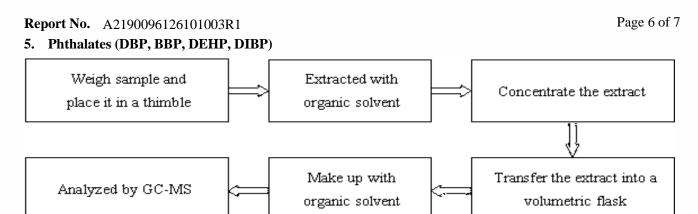
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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Report No. A2190096126101003R1

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
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- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Test Report No. CANEC1911780603 Date: 26 Jun 2019 Page 1 of 6

SINWA LASER TECHNOLOGY CO.,LTD

50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as: HALOGEN FREE

WHITE INK

SGS Job No.: CP19-032627 - SZ

Model No.: I-TPE-01

Client Ref. Info.: I-PE-01; I-TPE-01;I-TPR-01;I-PE-01; I-PPE-01;I-PP-01;I-TPU-01;I-RU-01

Date of Sample Received: 19 Jun 2019

Testing Period: 19 Jun 2019 - 26 Jun 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet,Shi

Approved Signatory

Mobet Shi



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Test Report Date: 26 Jun 2019 No. CANEC1911780603 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN19-117806.002 White liquid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1911780603		Date: 26 Jun 2019		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

Remark: The result(s) shown is/are of the total weight of dried sample.



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No. CANEC1911780603

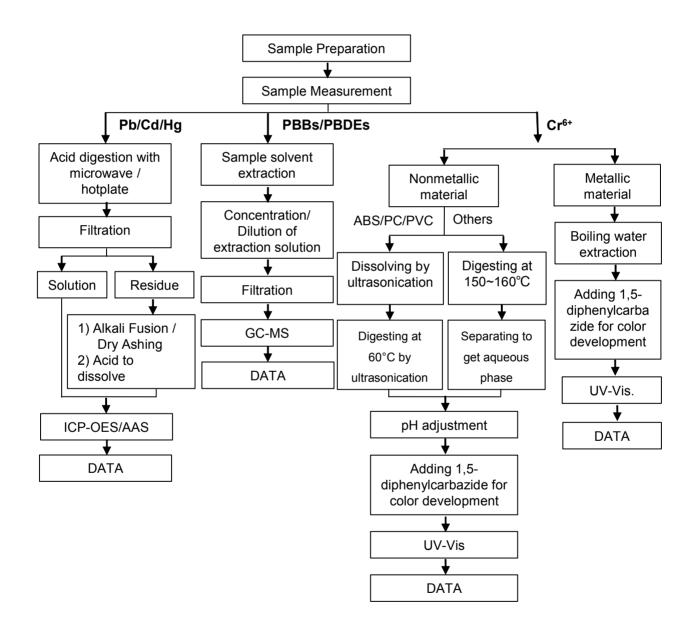
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Page 4 of 6

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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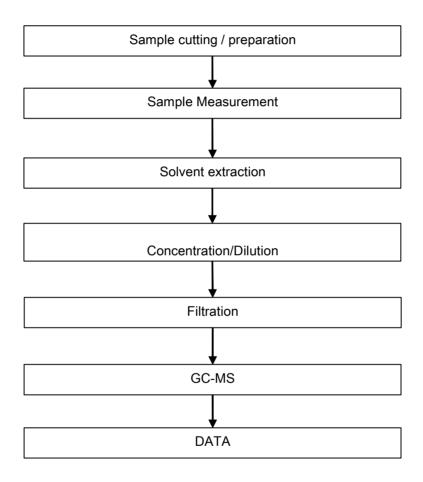
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Phthalates Testing Flow Chart





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No. CANEC1911780603

Page 6 of 6

Date: 26 Jun 2019

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. SZXEC1902199601 Date: 21 Oct 2019 Page 1 of 7

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREET, PINGSHAN DISTRICT, SHENZHEN, GUANGDONG

The following sample(s) was/were submitted and identified on behalf of the clients as: PLEASE SEE REMARK

SGS Job No.: RP19-021176 - SZ

Date of Sample Received: 16 Oct 2019

Testing Period: 16 Oct 2019 - 21 Oct 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford Shi

Approved Signatory

Ford



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Test Report No. SZXEC1902199601 Date: 21 Oct 2019 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SZX19-021996.001 Black tube w/ white printing

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19021996	Date: 21 Oct 2019		Page 3 of 7	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1000	ma/ka	50	ND	

Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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REMARK

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 NOER RSFR-H TUBE 125°C VW-1 H)



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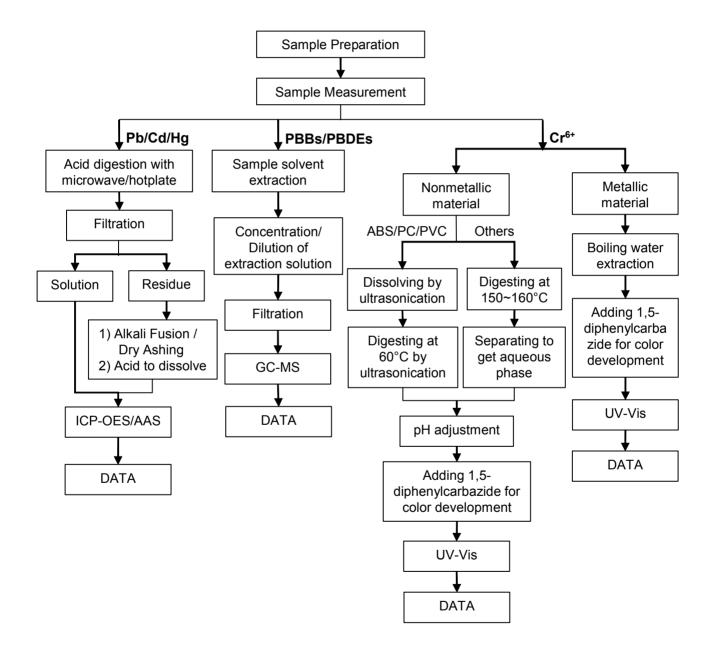
No. SZXEC1902199601

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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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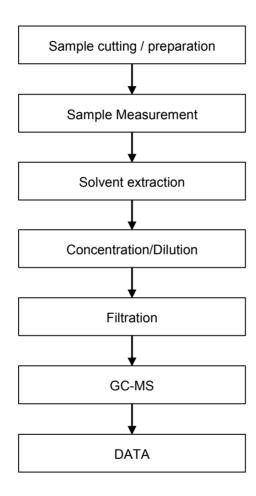
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ATTACHMENTS

Phthalates Testing Flow Chart





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Date: 21 Oct 2019

Sample photo:



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No. SZXEC1902150003

Date: 16 Oct 2019

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SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.
WOER MANSION, NORTH LANJING RD,PINGSHAN, SHENZHEN P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PLEASE SEE REMARK

SGS Job No.: RP19-020756 - SZ

Date of Sample Received: 11 Oct 2019

Testing Period: 11 Oct 2019 - 16 Oct 2019

Test Requested: As requested by client, SVHC screening is performed according to:

(i) Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 16, 2019 regarding Regulation (EC) No

1907/2006 concerning the REACH.

Test Results: Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are	PASS
≤ 0.1% (w/w) in the submitted sample.	

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan

Approved Signatory



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Remark:

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

- 2. REACH obligation:
 - 2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of \geq 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or \geq 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of \geq 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen SGS Description
No. Sample ID

SN1 SZX19-021500.002 Black tube

Test Method:

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Date: 16 Oct 2019

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Test Result: (Substances in the Candidate List of SVHC)

Ва	tch Substa	ance Name	CAS No.	002 Concentration (%)	RL (%)
	- All test	ted SVHC in candidate list	-	ND	-





No. SZXEC1902150003

Date: 16 Oct 2019

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Notes:

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.).ND = Not detected (lower than RL),

ND is denoted on the SVHC substance.

- 3.* The test result is based on the calculation of selected element(s) and to the worst-case scenario.
- ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

- 4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
- 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
- 6. \triangle CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
- 7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- 8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).





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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4, 3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
Ш	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
Ш	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
Ш	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050





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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005





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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005





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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	Ž	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005





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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005





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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
Х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
ΧI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-4	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.050



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050





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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050





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REMARK

RSFR-H HEAT SHRINKABLE TUBINGS(E203950 NM.(W) WOER RSFR-H TUBE 125℃ VW-1 H)





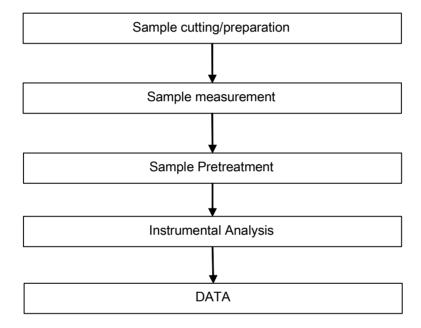
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ATTACHMENTS

SVHC Testing Flow Chart





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不使用限用物質聲明書

Non-use of restricted substances statement



OD4-089 Rev.B2

請填寫相關資訊

Please fill in the relevant information:

公司名稱 Company name: 飛偉科技有限公司

公司負責人 Company Responsible Person: 王俊偉

立書人 Declarant: 王俊偉

立書人職稱 Declarant's Title: 負責人

本聲明書生效日期 Effective Date of this Declaration: 2017/08/03



請勾選本聲明書適用範圍

Please Select the Scope of this Declaration:

- 提供給研揚的全部產品 All Products provided to AAEON
- 研揚料號 AAEON Part Number:

1701100180



(負責人章 Responsible Person

Chop)

原廠料號	Manufacturer Part Number:	
原廠料號	Manufacturer Part Number:	

_____ (Fill in Company name) Response to global green environmental protection regulations or other laws, guarantee the following matters:

- 一、產品符合歐盟 RoHS (2011/65/EU)* 規範。 The product complies with EU RoHS (2011/65/EU) norms.
 - i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863,將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中,限值仍為 1000ppm,從 2019 年 7 月 22 日起需符合此要求,作為供應商,如果有包含上述物質,務必主動通知研揚。

EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from **22 July 2019** for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

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ii. 當作為包材類的材料,也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU) When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)

Note: Pb+Cd+Hg+Cr⁶⁺ <100 ppm

iii. 若為電池零件,也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)

Note: Cd<20ppm; Hg <5ppm

二、產品符合衝突金屬(Conflict Metal)規範,並確認銷售產品若有含錫、鉭、鎢、金這四種礦產,來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin tantalum tungsten gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo Uganda San Tanzania, Rwanda, Angola, Zambia, Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範,

高關注物質(SVHC),不超過 0.1%上限,以重量計算。

備註:請參照歐盟化學總署(ECHA)網站,最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

Note: Please check ECHA website for latest SVHC list: https://echa.europa.eu/candidate-list-table

立書人提供給研揚的所有文件(含測試報告、聲明書、調查表等文件),均正確屬實並且完整。 All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.

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