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-1309

客戶料號

Cus. P/N: 170X000093

規格敘述

DESCRIPTION: 1. 0mm 2X20P 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

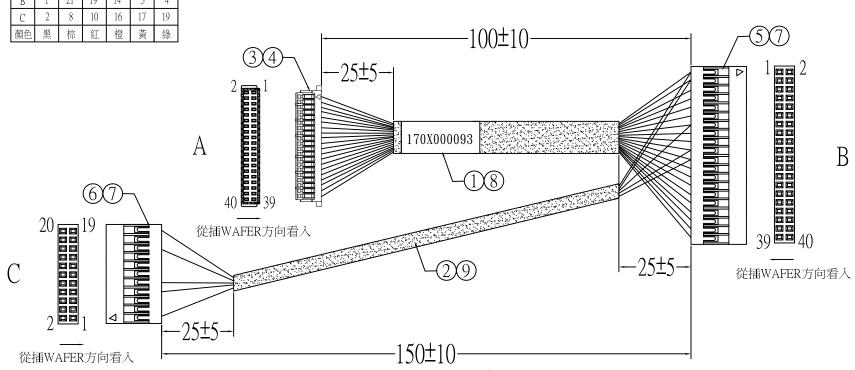
E-Mail:chino@flyingwaytech.com.tw

Cellphone: 0983588528

DATE: 2020/03/25

RoHS Compliant





9	套管:L=50mm 黑 薄	1	pcs	WORE或同級品
8	套管:L=100mm 黑 薄	1	pcs	WORE或同級品
7	TER:12541T2B-OA	46	pcs	JCTC或同級品
6	HSG:12541H00-2*10PA	1	pcs	JCTC或同級品
5	HSG:12541H00-2*20PA	1	pcs	JCTC或同級品
4	TER:11002TOP-2E	40	pcs	JCTC或同級品
3	HSG:11002H00-2*20P	1	pcs	JCTC或同級品
2	線材:UL1571#28 OD=0.8 黑;棕;紅;橙;黃;綠各1 L=165*3.5*3.5	共6	pcs	瑞興或同級品
1	線材:UL1571#28 OD=0.8 黑*39;紅*1 L=112*3.5*3.5	共40	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	2020/01/16

司

又有 TECH CC 科 限公

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

TITLE:

1.0mm 2*20P CABLE 150mm

FW P/N: FWAA-1309

P/N: 170X000093

REV: A DWG BY: Irene Chino DATE:

2020/01/16

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:

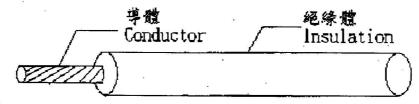
•Internal wiring in electronic equipments

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)		Ļ	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			
額定溫度/電壓 RATING TEMP./VOLT.			80°C/30V								
線號 SIZE		AWG	34	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	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	外被厚度 JACKET	AVG	MM	/							
ž	THICKNESS	MIN	IVIIVI	7							
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 I	UNAGED	70			
	滄溫度/條件 AGING TE	MP./TIMI	Ε	113°C/168HRS							
耐燃燒討	t驗 FIAME TEST			VW-I							
高溫纏繞	試驗 HEAT SHOCK T	EST		80°C/1HR 1.60MM MANDREL							
低溫纏繞	試驗 COLD BEND TE	EST		-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

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File E108485

Vol. 2

Issued: 01-17-97

Revised: 5

5-9-01

FOLLOW-UP SERVICE PROCEDURE (TYPE L)

COMPONENT - 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 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.

繁工程部 変 工程部 変 行章

UNDERWRITERS LABORATORIES INC.

J. J. Ritchie Vice President

Laboratory Management and Operations, profit organization dedicated to public salar,

committed to quality search

File E108485

Vol. 2

Sec. 1

Page 1

Ilsued: . 1997-01-17

Revised: 2007-06-19

TABLE OF AUTHORIZED STYLES SINGLE-CONDUCTOR THERMOPLASTIC INSULATED WIRE

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F 1010 2003-02-27	F 1371	2003-12-08		1726	2003-12-08		,
1011 1997-06-04	1429	2004-11-24	F	1789	2004-11-24		¥
1013 1997-06-04	F 1430	1999-04-29	F	10064	2003-12-08	STREET STREET	
1015 1997-06-04	1431	2004-11-24		10070	2006-07-21	:#E	
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	8	
1061 1997-01-17	1516	2004-05-04		10362	2003-12-08		
1080 2003-01-03	1533	2000-11-09	. 1	10368	2004-11-24		
1095 1997-06-04	F 1538	2003-12-08		10369	2004-11-24		
1164, 2004-05-04	1569	2003-06-17					
1180 2004-05-04	F 1571	1997-01-17				5	
1185 2000-11-09	F 1577	2003-12-08					
1198 2004-05-04	F 1581	2001-05-09		2 4			
1199 2004-05-04	15,84	2004-05-04					
1212 2004-05-04	F 1589 2	1007-06-19				· · · · · · · · · · · · · · · · · · ·	
1213 2004-05-04	1591 2	003-12-08					
1226 2003-12-00	1592 2	003-12-011					
1227 2003-12-08	1617 1	997-01-17					
1283 2003-02-27	1618 20	003-02-27		947			
1285 2003-01-08	1672 20	003-02-27					
I316 2003-02-27	1674 20	03-02-27				18 ⁷	
1330 2003-12-08 F	1685 20	04-11-24					
1331 2003-12-08	1709 20	03-12-00		海 湖南	統制品		
332 2003-12-08	1710 200	03-12-08		龍工力	2.08		
				2010	-7-00		



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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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 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	07	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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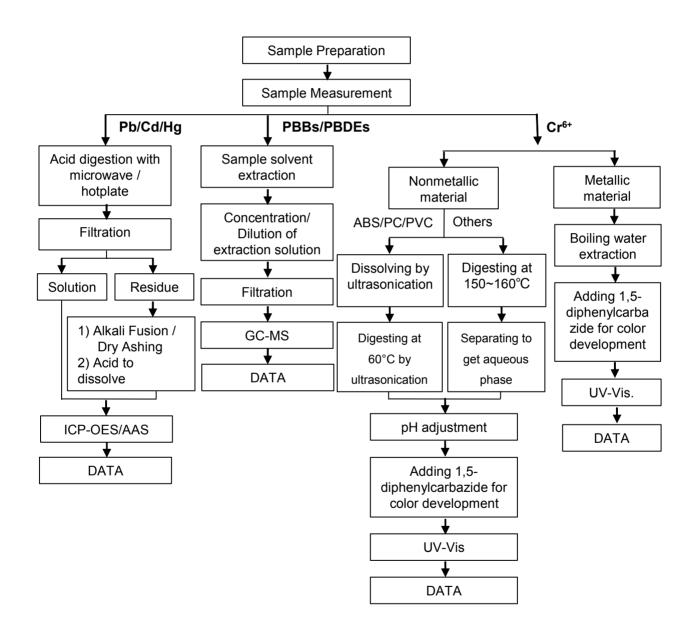
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Date: 12 Jun 2019

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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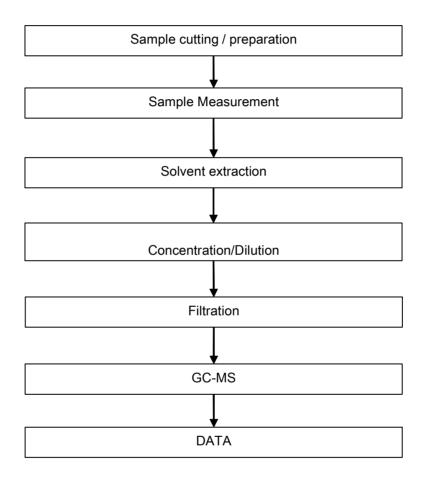
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ATTACHMENTS

Phthalates Testing Flow Chart





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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

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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

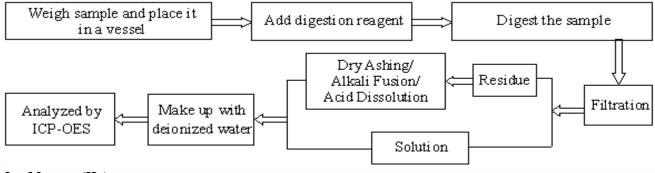


Report No. A2190175998101034

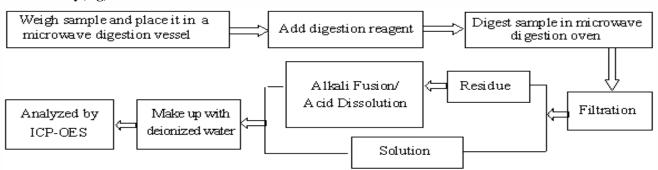
Page 5 of 7

Test Process

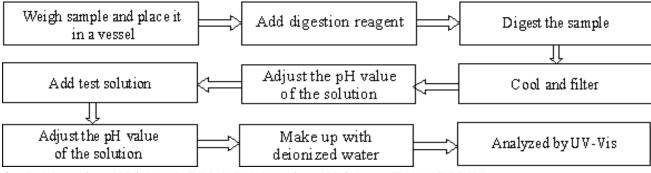
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



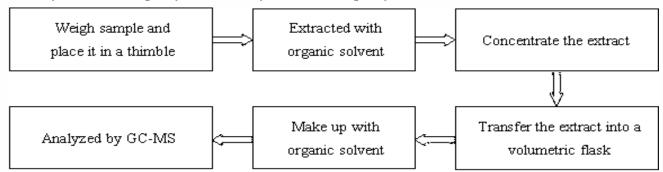
2. Mercury(Hg)

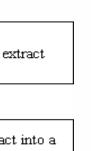


3. Hexavalent Chromium(Cr(VI))

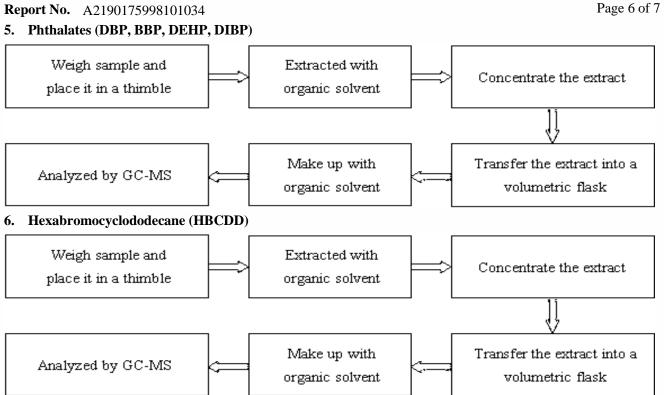


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101034

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

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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

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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

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	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

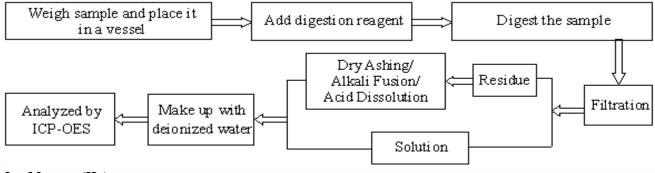


Report No. A2190175998101028

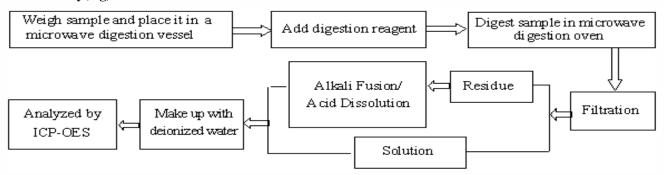
Page 5 of 7

Test Process

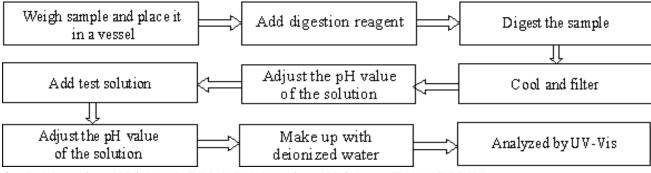
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



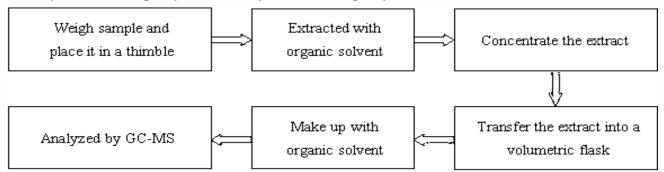
2. Mercury(Hg)



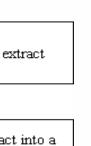
3. Hexavalent Chromium(Cr(VI))



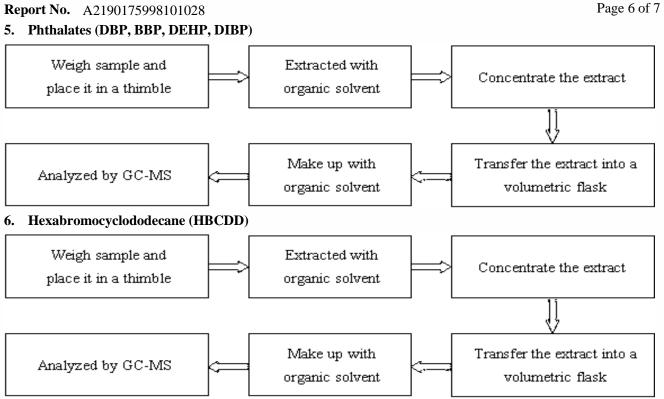
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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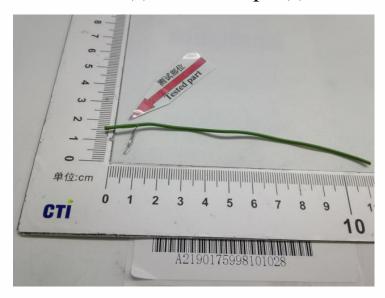




Report No. A2190175998101028

Page 7 of 7

Photo(s) of the sample(s)



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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

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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

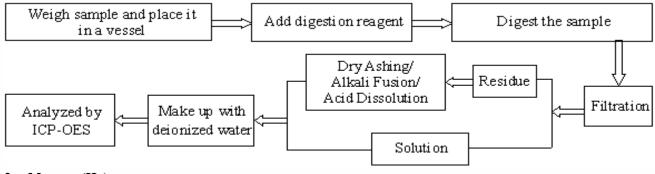


Report No. A2190175998101019

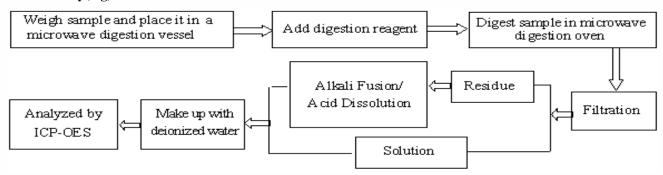
Page 5 of 7

Test Process

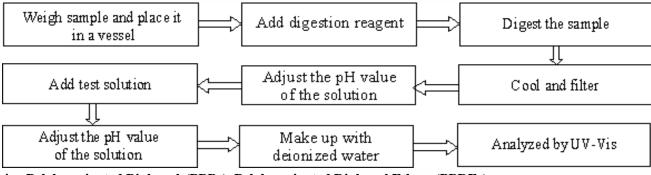
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



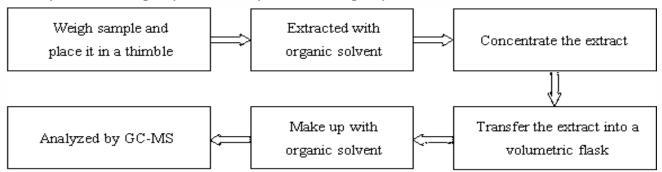
2. Mercury(Hg)



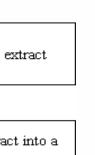
3. Hexavalent Chromium(Cr(VI))



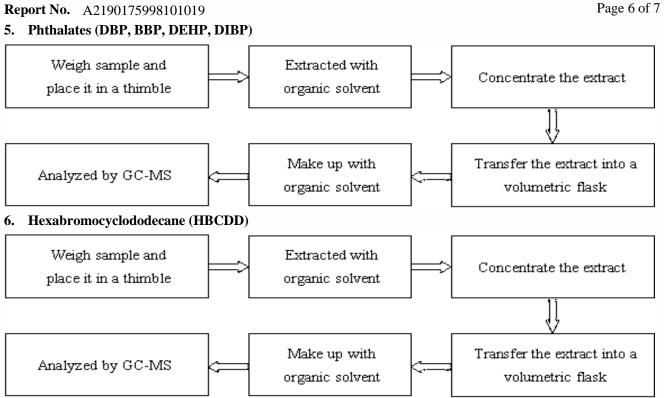
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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Report No. A2190175998101019

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

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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.

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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

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. 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

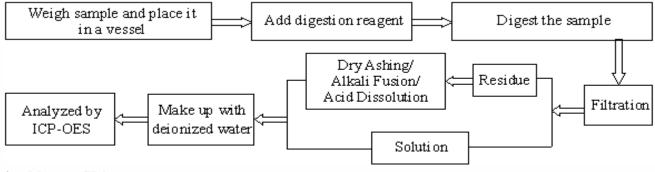


Report No. A2190175998101013

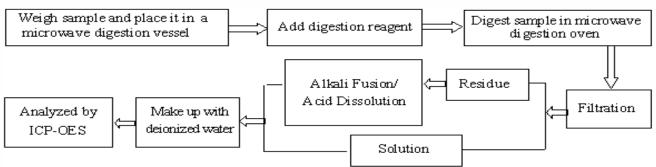
Page 5 of 7

Test Process

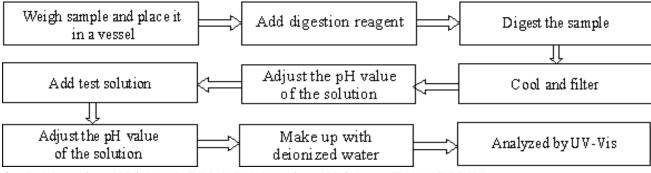
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



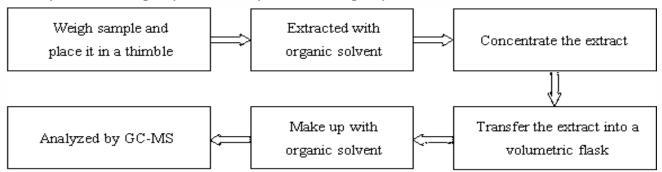
2. Mercury(Hg)



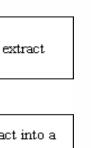
3. Hexavalent Chromium(Cr(VI))



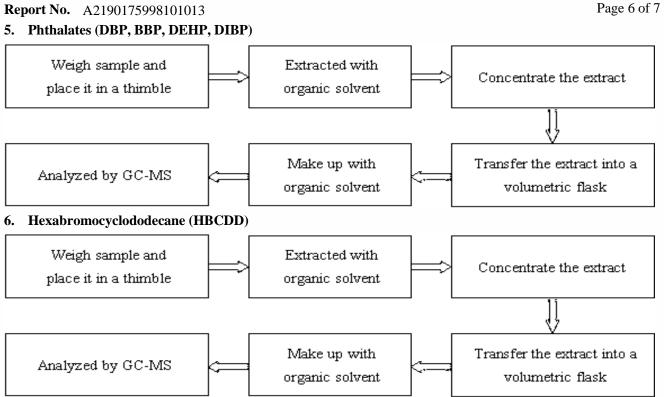
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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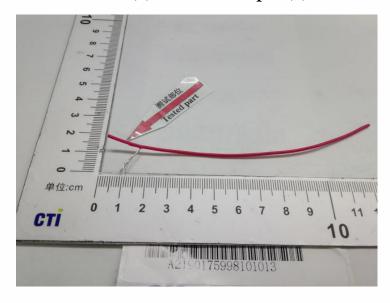
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A2190175998101013

Page 7 of 7

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. 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

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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

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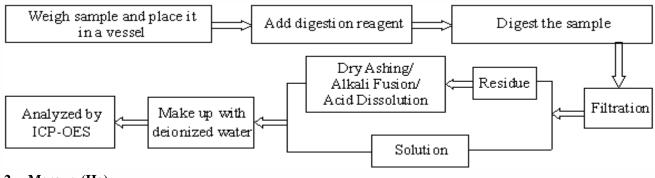


Report No. A2190175998101010

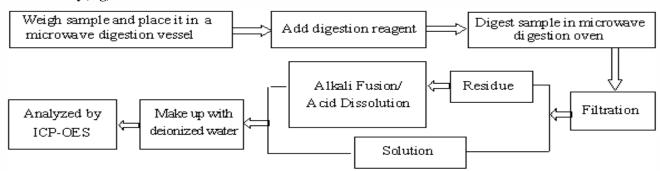
Page 5 of 7

Test Process

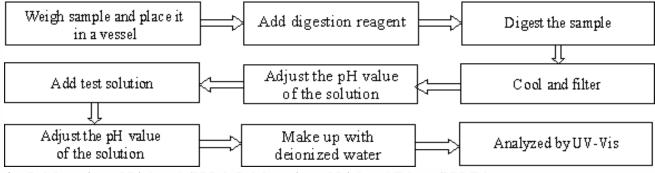
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



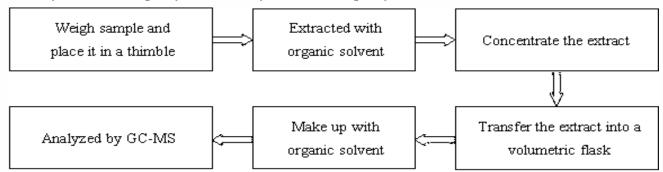
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

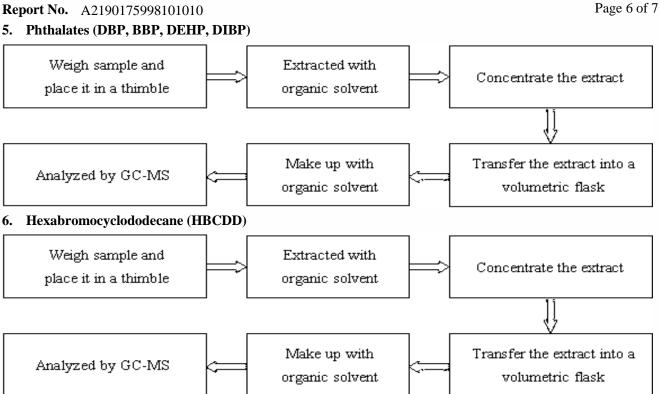


4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)











Report No. A2190175998101010

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Photo(s) of the sample(s)



*** End of report ***

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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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

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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

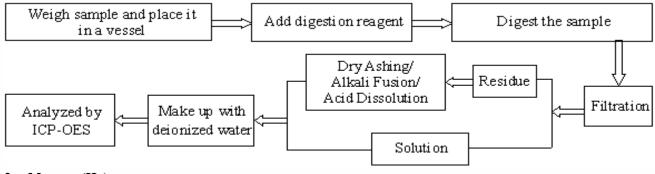


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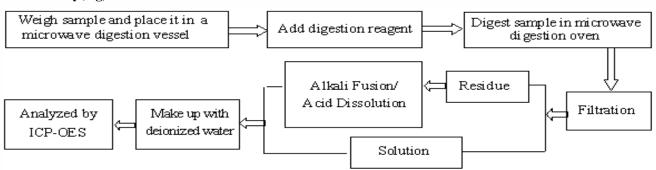
Page 5 of 7

Test Process

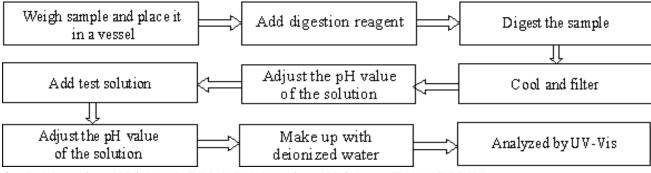
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



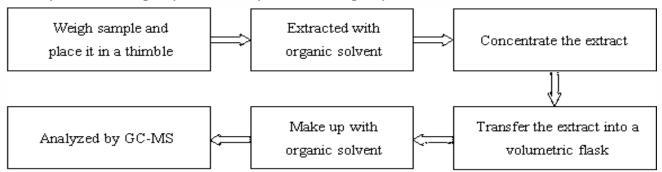
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



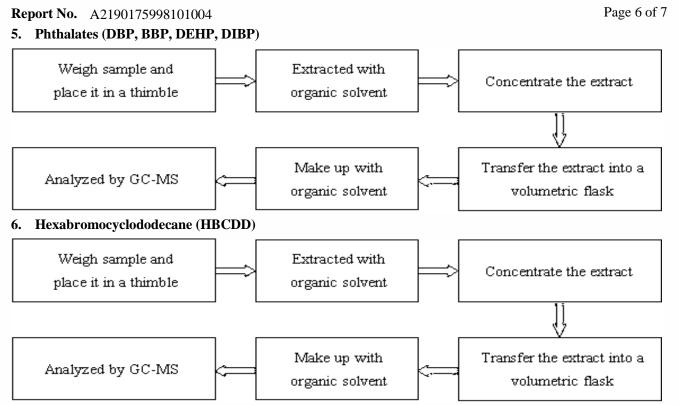
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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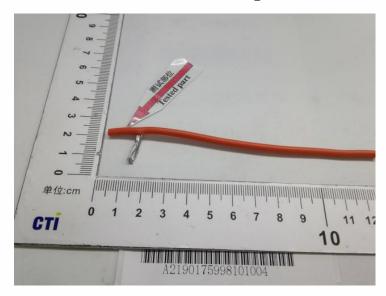
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A2190175998101004

Page 7 of 7

Photo(s) of the sample(s)



*** End of report ***

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- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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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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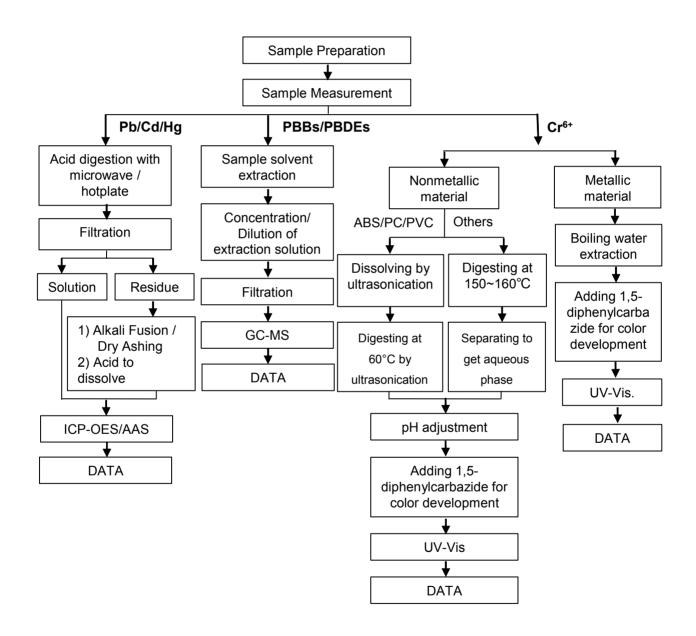
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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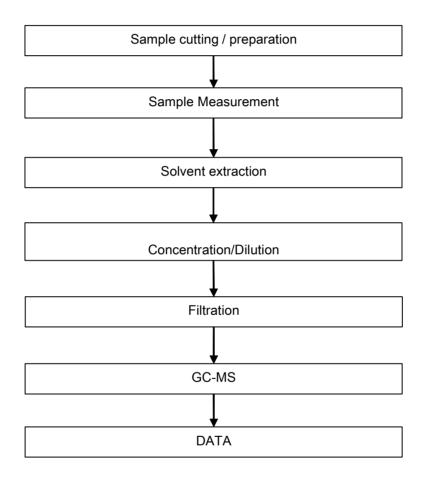
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Phthalates Testing Flow Chart





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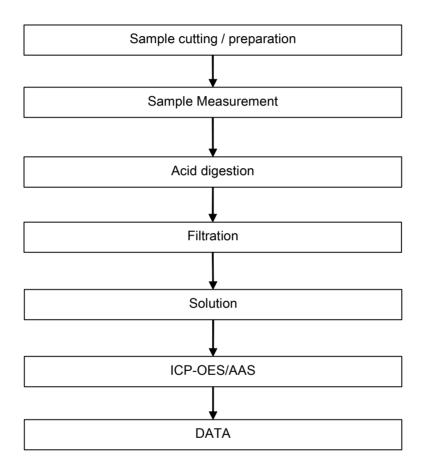
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Elementary Testing Flow Chart





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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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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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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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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 (%)
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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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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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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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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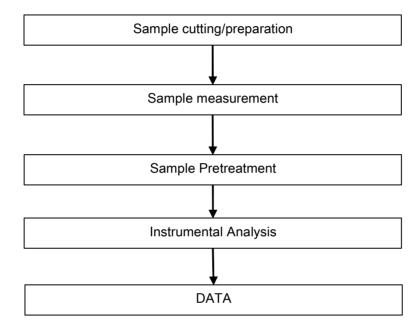
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ATTACHMENTS

SVHC Testing Flow Chart





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Sample photo:



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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 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).	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. <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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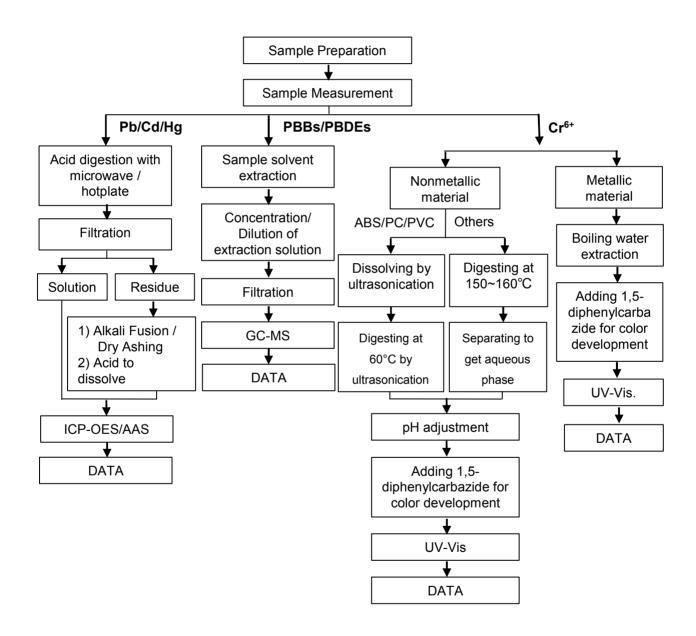
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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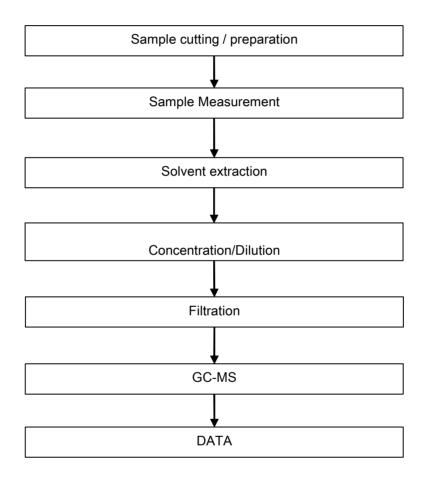
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Phthalates Testing Flow Chart





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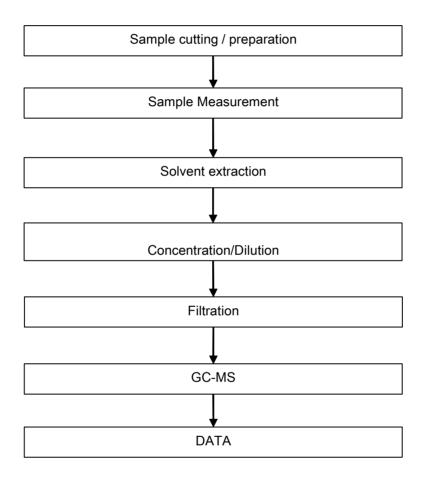
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PAHs Testing Flow Chart





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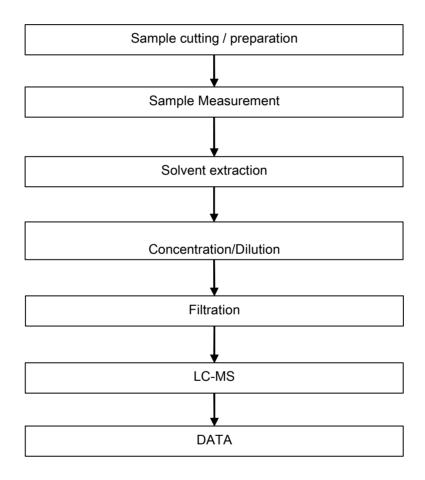
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PFOA / PFOS Testing Flow Chart





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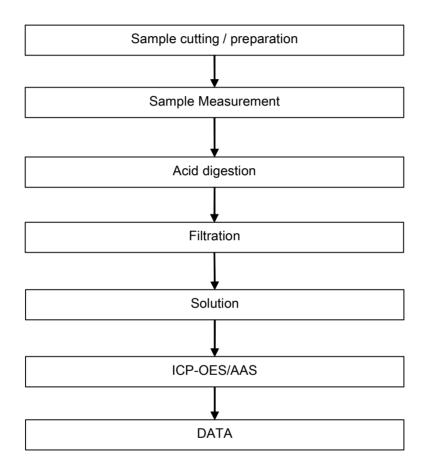
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Elementary Testing Flow Chart





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Sample photo:



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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. 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

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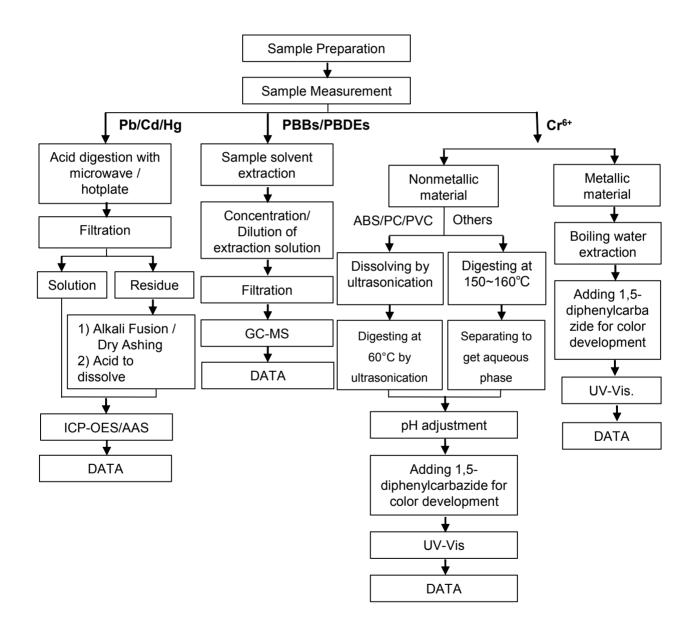
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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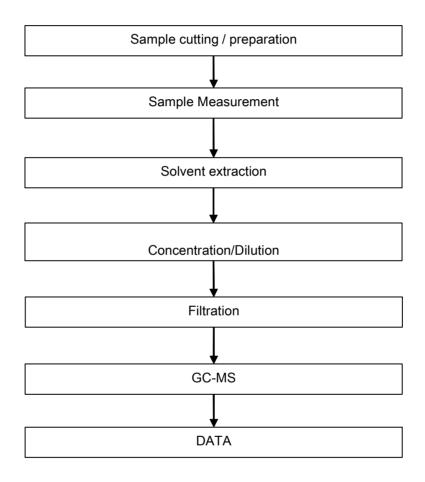
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Phthalates Testing Flow Chart





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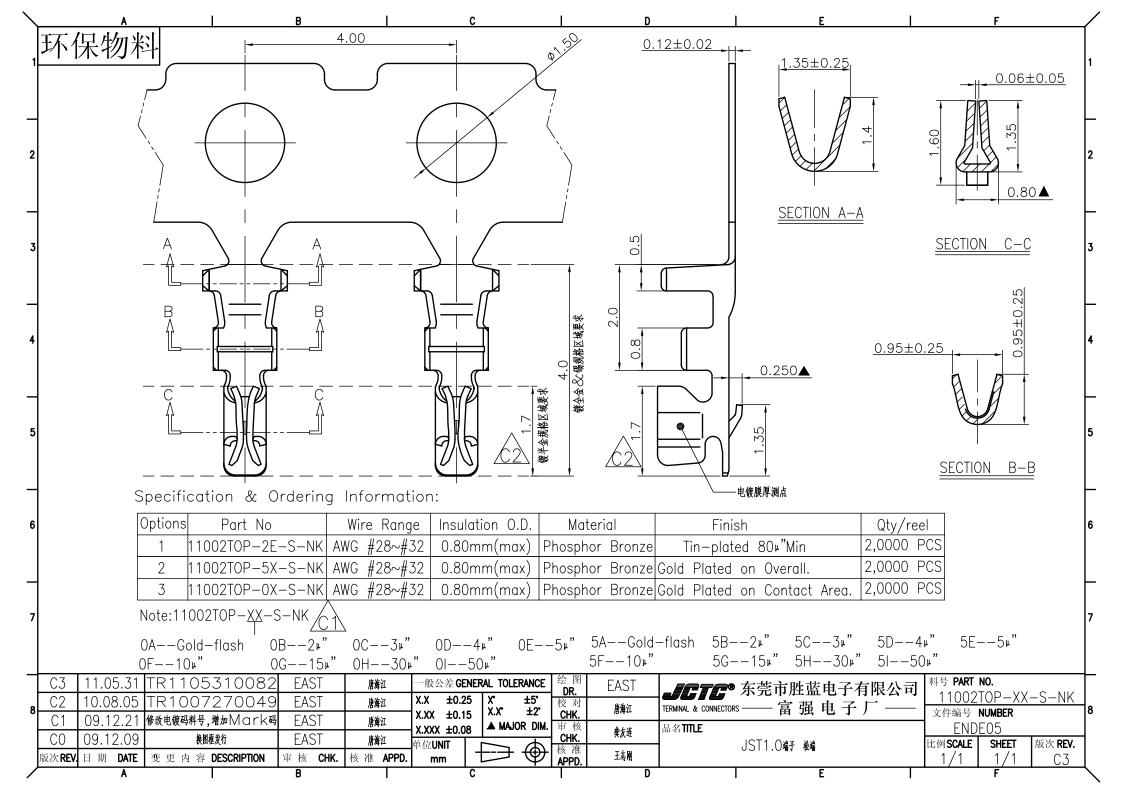
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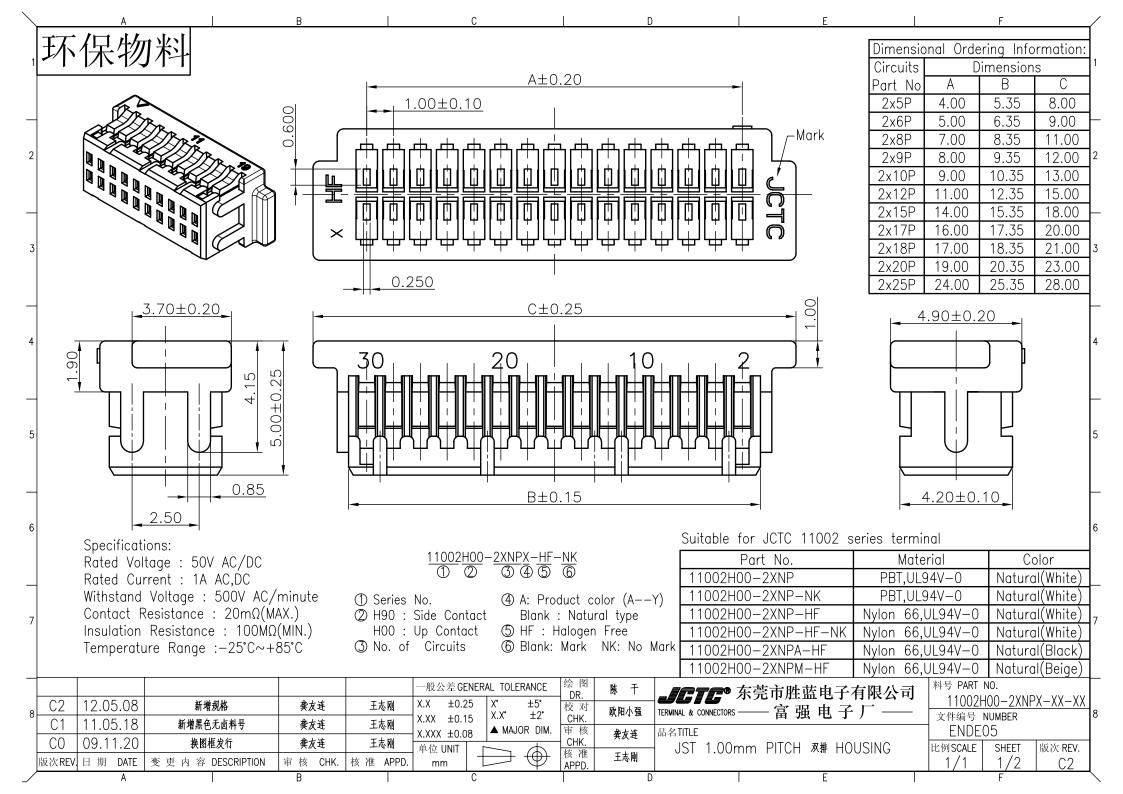


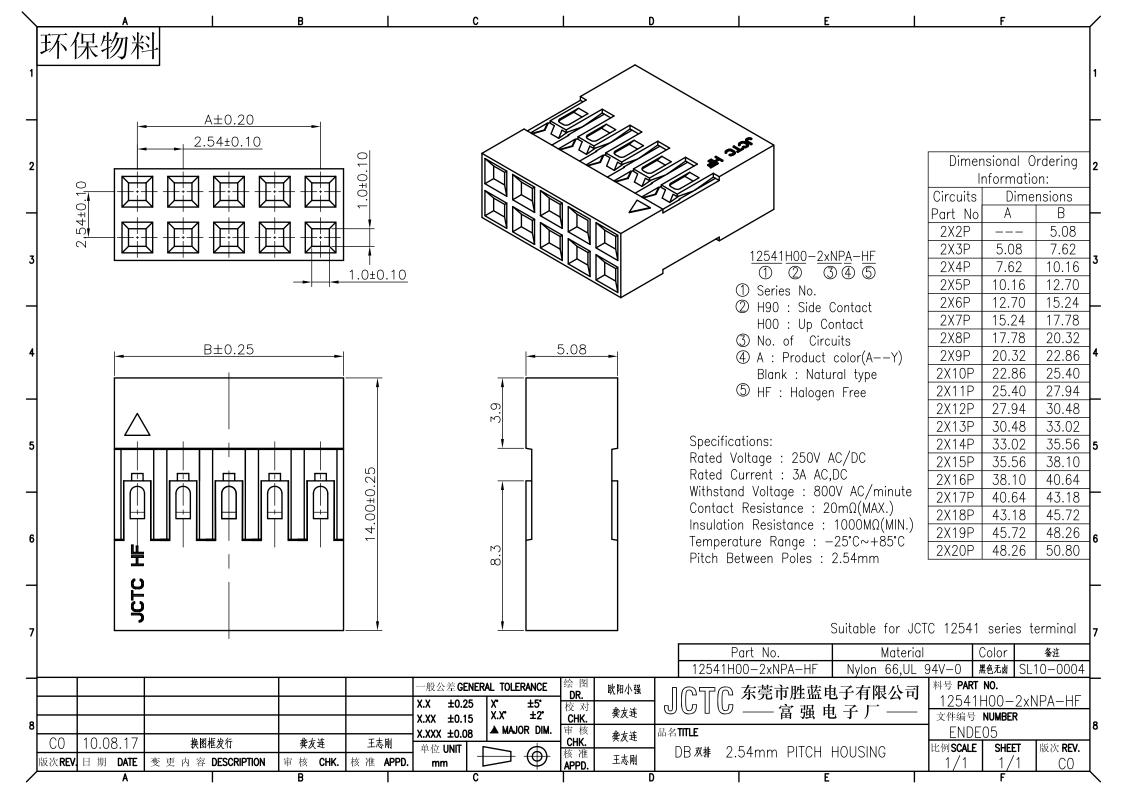
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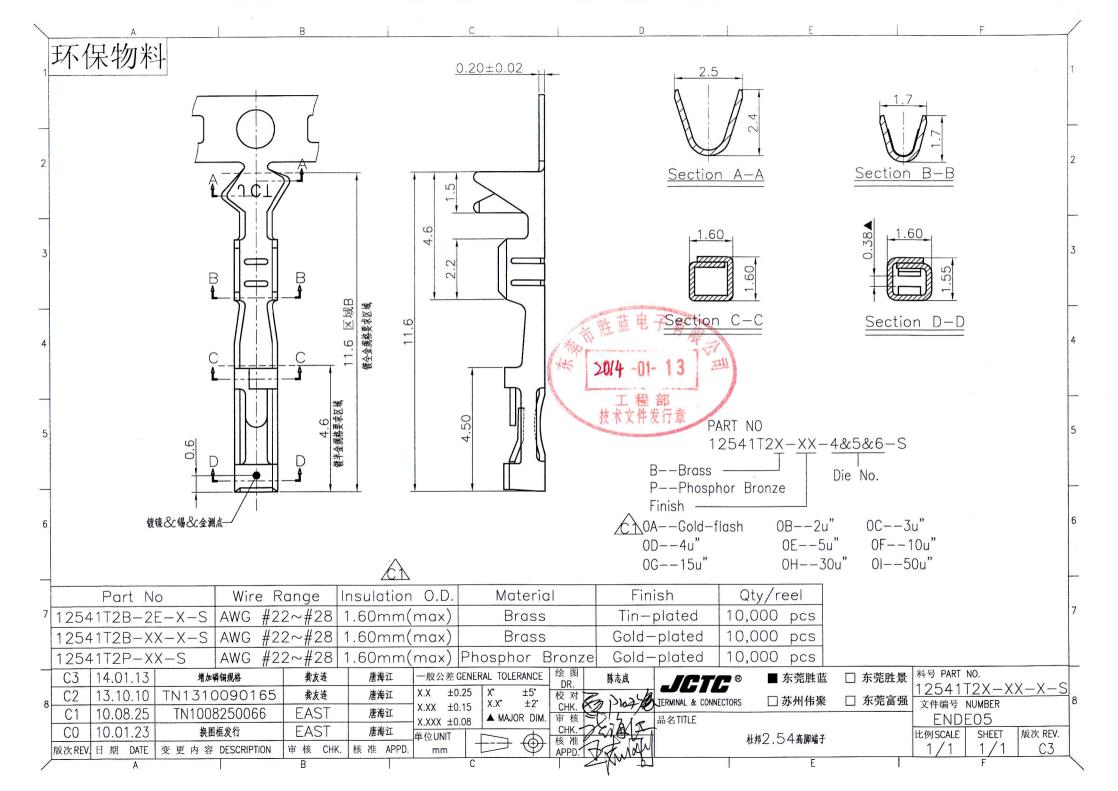
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F338796

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.

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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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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
-	mg/kg	5	ND
-	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. CANEC19175989	07	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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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 under category 1 or 2 with foresees		
		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)

中国·广州·经济技术开发区科学城科珠路198号

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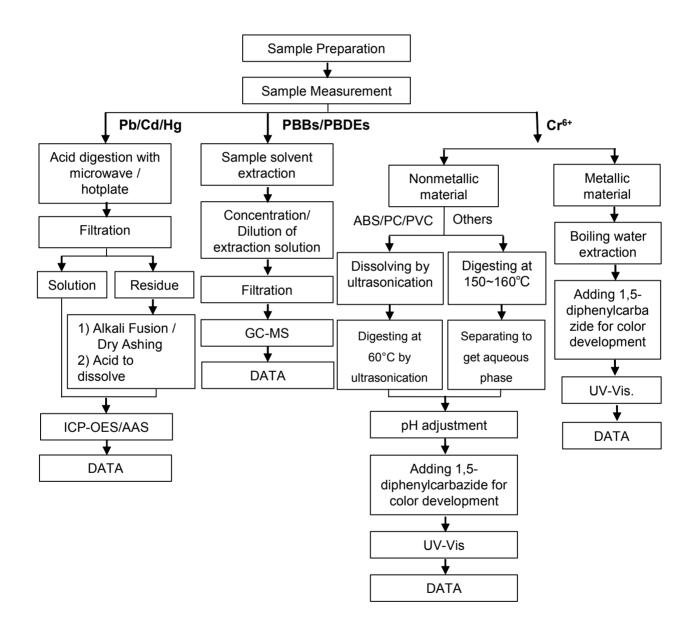
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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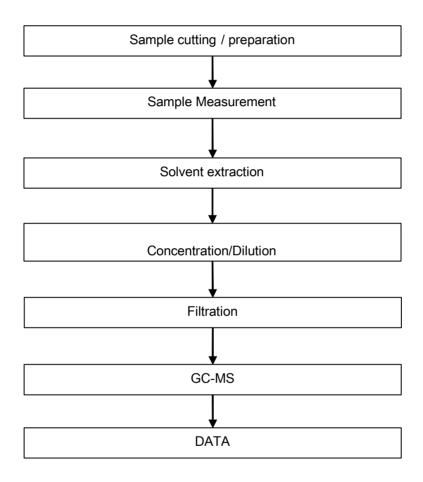
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Phthalates Testing Flow Chart





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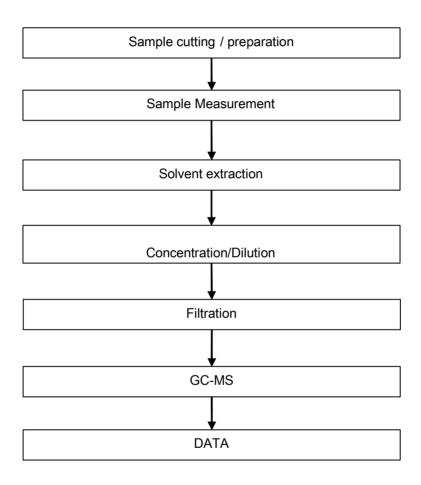
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HBCDD Testing Flow Chart





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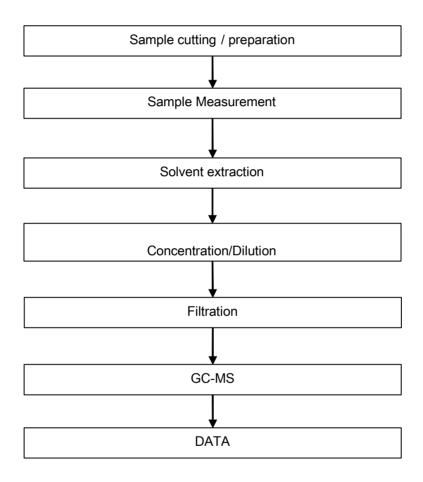
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PAHs Testing Flow Chart





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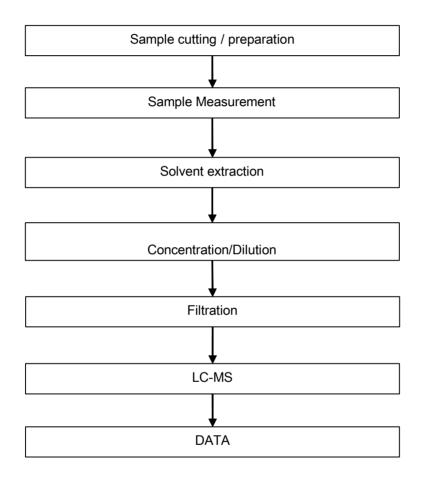
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PFOA / PFOS Testing Flow Chart





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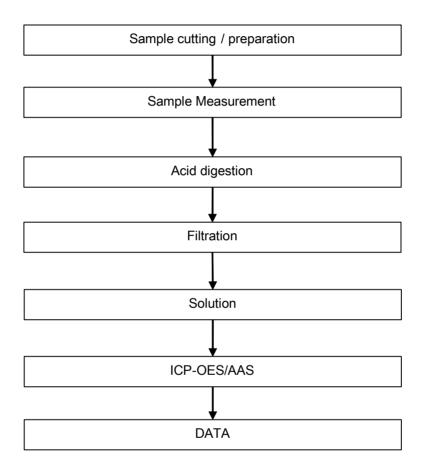
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Elementary Testing Flow Chart





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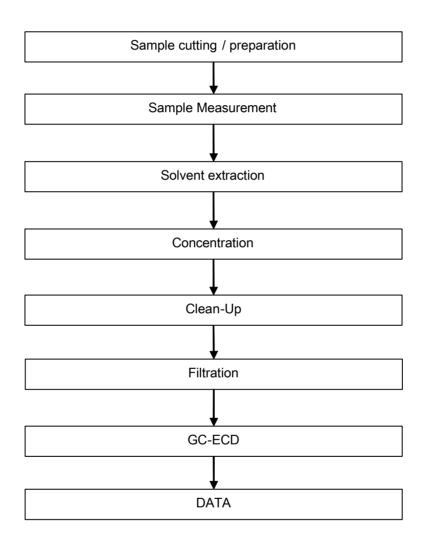
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SCCP/MCCP/LCCP Testing Flow Chart





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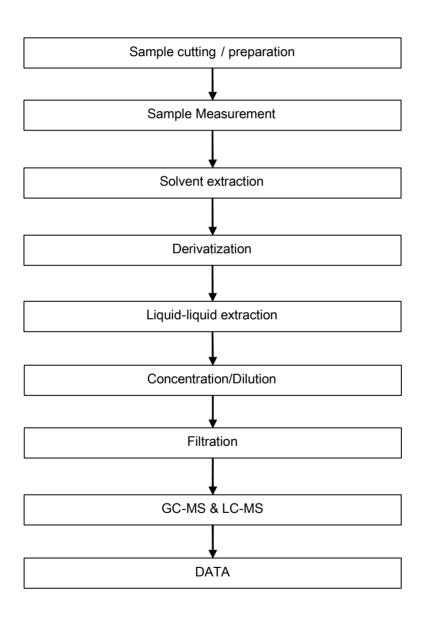


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TBBP-A Testing Flow Chart





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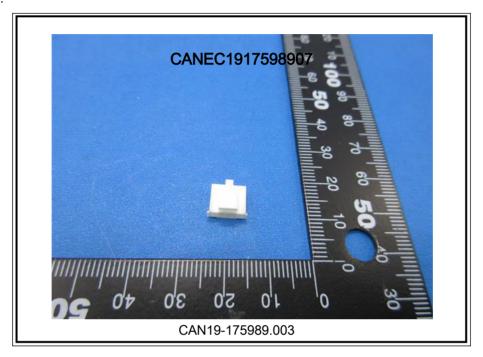


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Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1921650119 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 gold-plated terminal

CP19-059002 - SZ SGS Job No.:

Model No.: 12003

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).

Conclusion: Based on the performed tests on selected part of 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

Dongyu Xie

Approved Signatory

Yorgyu Xie



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Test Report No. CANEC1921650119 Date: 13 Nov 2019 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN19-216501.007 Brassy 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>007</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	18
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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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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Test Report No. CANEC1921650119 Date: 13 Nov 2019 Page 3 of 8

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
 007

 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)	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>007</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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Test Report No. CANEC1921650119 Date: 13 Nov 2019 Page 4 of 8

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、

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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 gold-plated pin needle



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No. CANEC1921650119

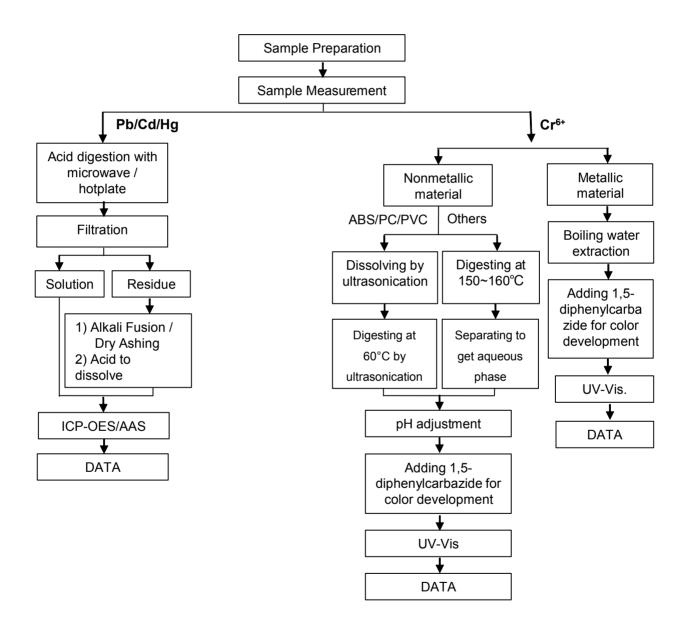
Page 5 of 8

Date: 13 Nov 2019

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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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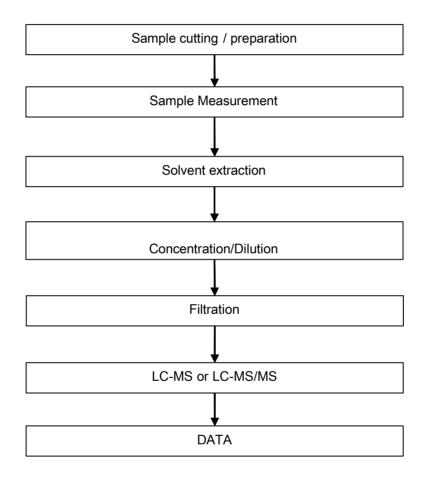
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PFOA / PFOS Testing Flow Chart





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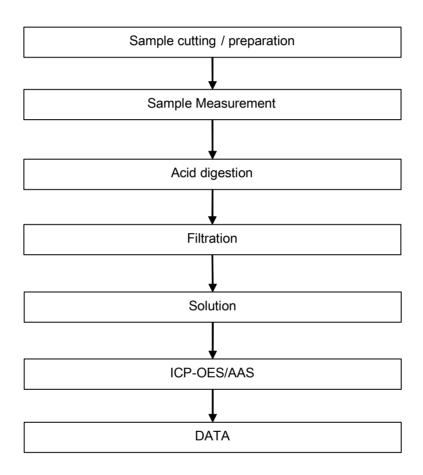
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ATTACHMENTS

Elementary Testing Flow Chart





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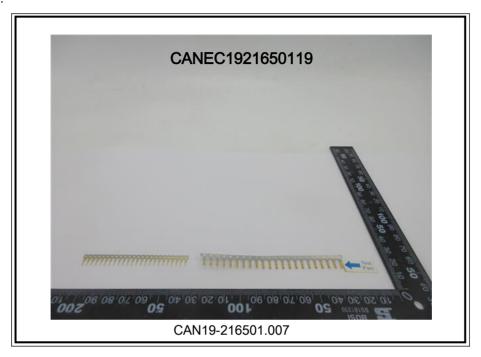


No. CANEC1921650119

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Date: 13 Nov 2019

Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1921650113 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: Brass copperplating nickel gold -plated terminalsand

CP19-059002 - SZ SGS Job No.:

Model No.: 12541

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).

Conclusion: Based on the performed tests on selected part of 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

Dongyu Xie

Approved Signatory

Yorgyu Xie



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Test Report No. CANEC1921650113 Date: 13 Nov 2019 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN19-216501.005 Brassy 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>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	24
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 https://www.cenelec.eu/dyn/www/f2n=104:30:1742232

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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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Test Report No. CANEC1921650113 Date: 13 Nov 2019 Page 3 of 8

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
 005

 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>005</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、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、BAB11-00BDL1XXL-H、M0143-CA-XX、M0142-CA-XX、HDMAC1XNA-R、

HDMAC2XNA-R、BM0249-NL-BK、BM0248-NL-BK、BB0152-XX-XX

Brass copperplating nickel gold -plated pin needle and welding pieces

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No. CANEC1921650113

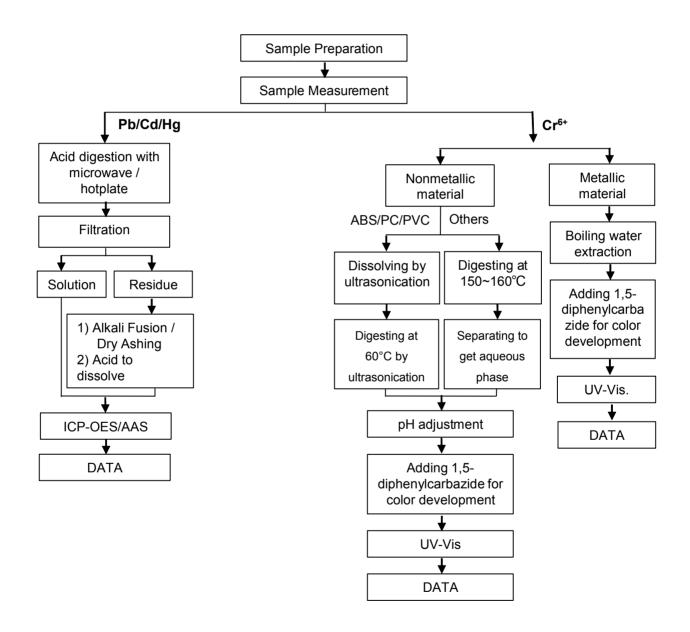
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

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





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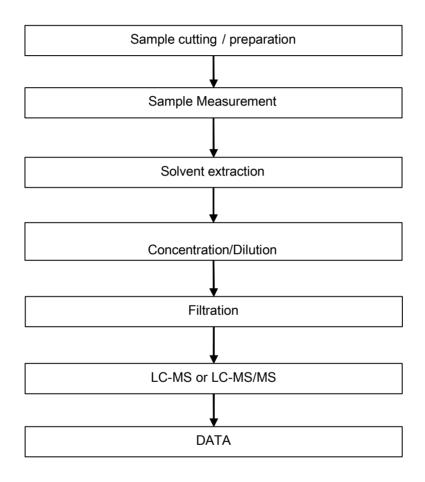
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PFOA / PFOS Testing Flow Chart





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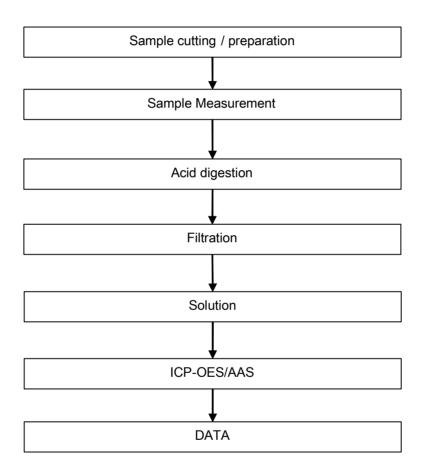
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Elementary Testing Flow Chart





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Sample photo:



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 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 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 Item(s)	CAS	NO. Unit	MDL	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)	117-8	1-7 %(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-1	2-0 / %(w/w)	0.010	ND
	68515-4	18-0		
Di-n-octyl Phthalate (DNOP)	117-84	4-0 %(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-4	, ,	0.010	ND
	68515-4			
Di-n-hexyl Phthalate (DnHP)	84-75	,		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	1-3 %(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-2	26-3 %(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16	6-8 %(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61	-7 %(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18	8-0 %(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-3	1-9 %(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62	-8 %(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23	3-1 %(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50	0-5 %(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6	-8-branched alkyl 71888-8	39-6 %(w/w)	0.010	ND
esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7 linear alkyl esters (DHNUP)	-11-branched and 68515-4	12-4 %(w/w)	0.010	ND
Di-n-heptyl Phthalate (DnHpP)	3648-2	1-3 %(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76	,		ND
Bis(2-methoxyethyl) Phthalate (DME		,		ND
=.5(=ouiox,oui,j., i illialato (DIVIE	,	- 5 /0(W/W)	0.000	.,_

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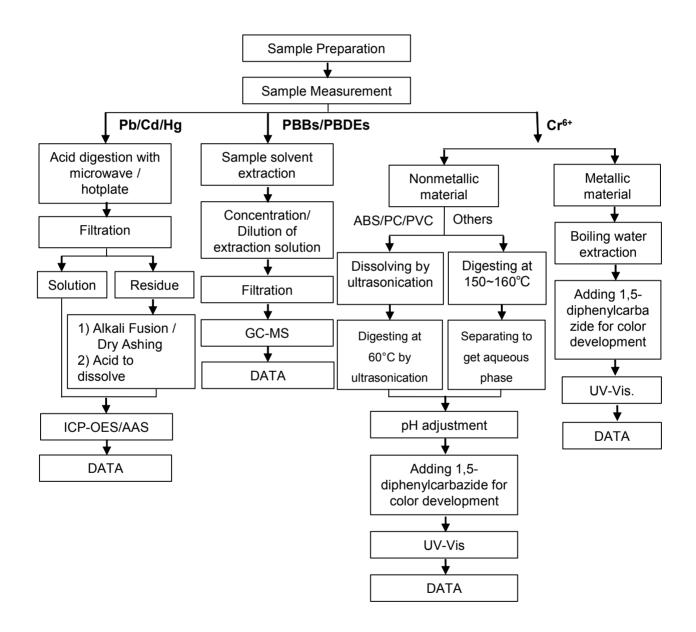
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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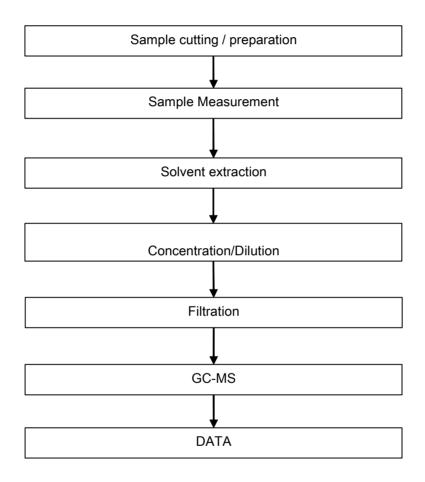
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Phthalates Testing Flow Chart





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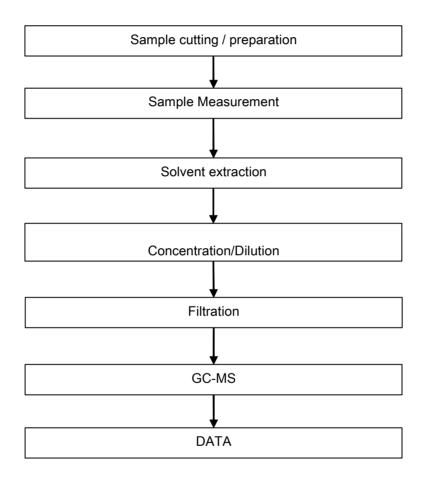
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HBCDD Testing Flow Chart





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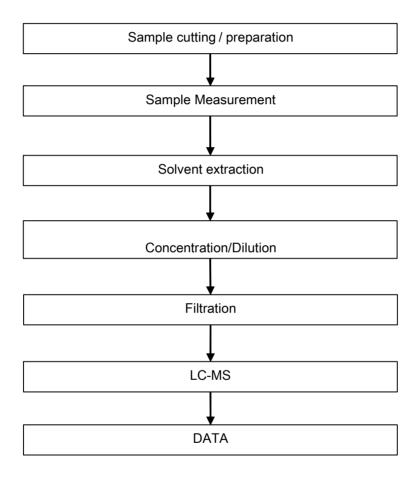
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PFOA / PFOS Testing Flow Chart





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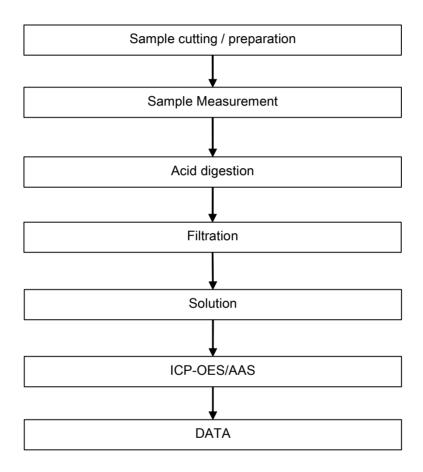
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Elementary Testing Flow Chart





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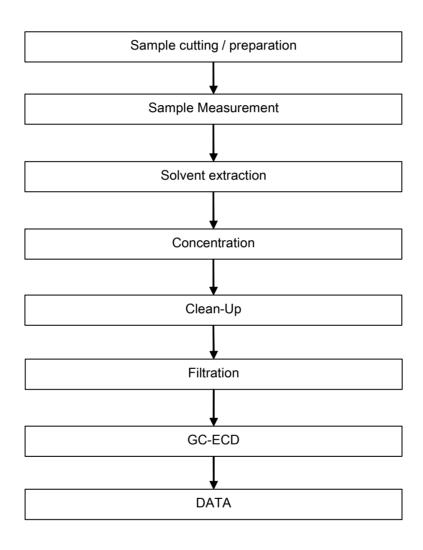


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SCCP/MCCP/LCCP Testing Flow Chart





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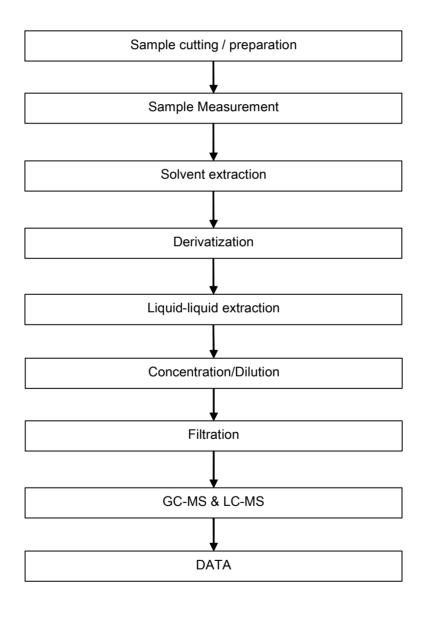
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TBBP-A Testing Flow Chart





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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

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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				
	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	
	体积电阻率/Ω•cm		GB/T1410	\geqslant 1×10 ¹⁴	
化学性能	学性能 铜安定性 UL224; 158℃×168hr		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 ± 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。	收缩后尺寸(mm)		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				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	氢氧化镁 Magnesium		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-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-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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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.

37

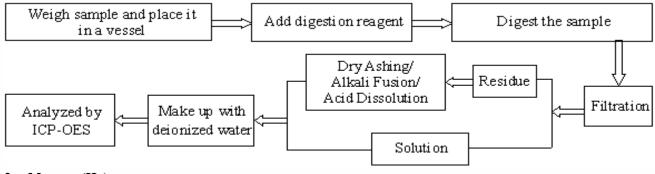


Report No. A2190096126101003R1

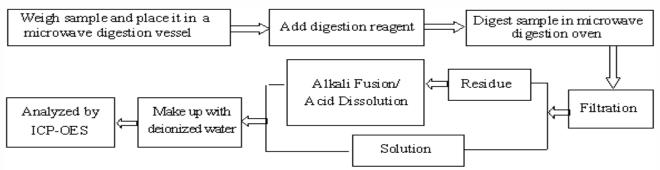
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Test Process

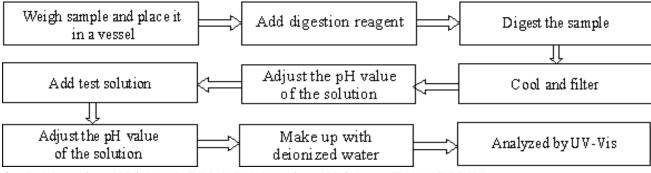
1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



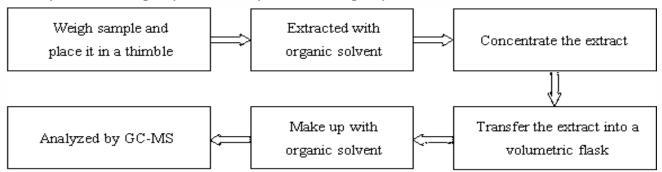
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



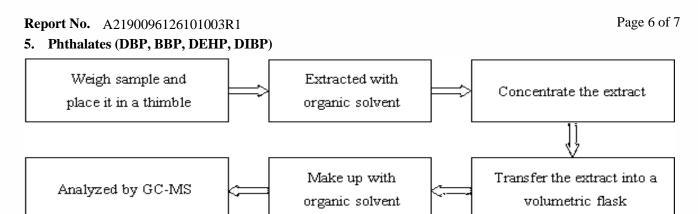
4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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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	803	B 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

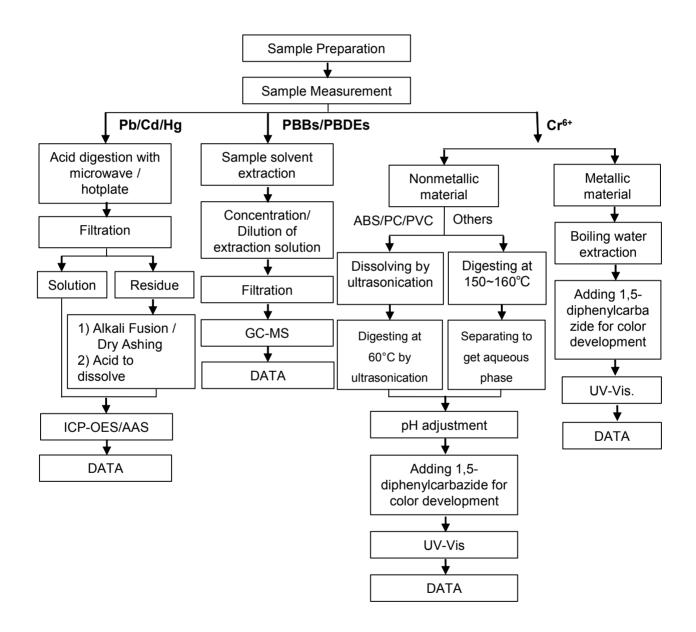
Date: 26 Jun 2019

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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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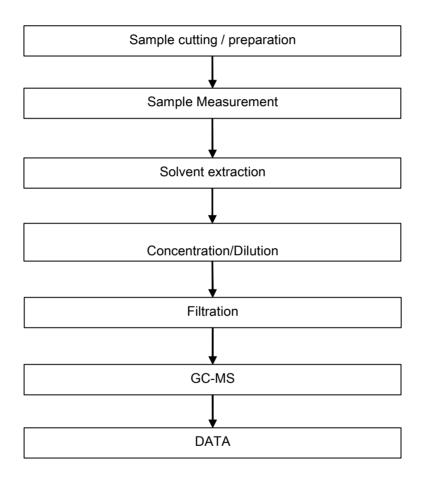
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Page 5 of 6

ATTACHMENTS

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. SZXEC1902199601		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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No. SZXEC1902199601

Date: 21 Oct 2019

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REMARK

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 NOER RSFR-H TUBE 125°C VW-1 H)



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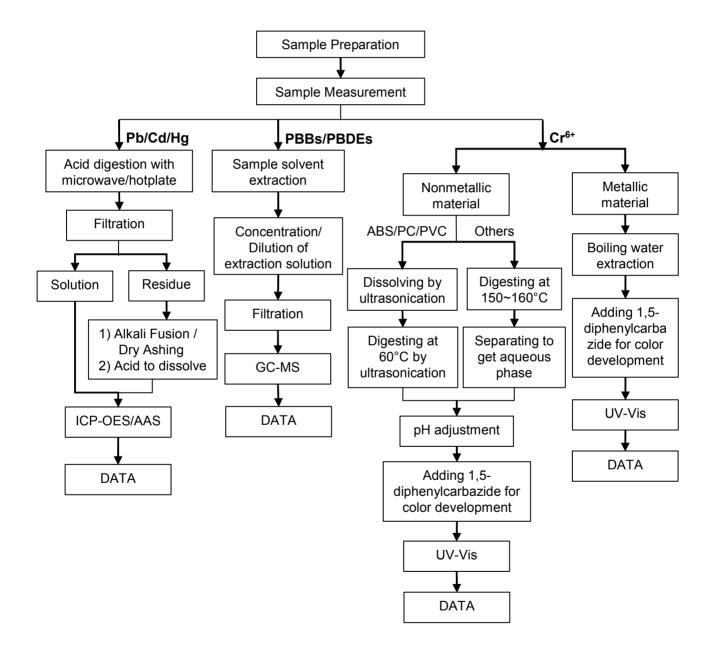
No. SZXEC1902199601

Date: 21 Oct 2019 Page 5 of 7

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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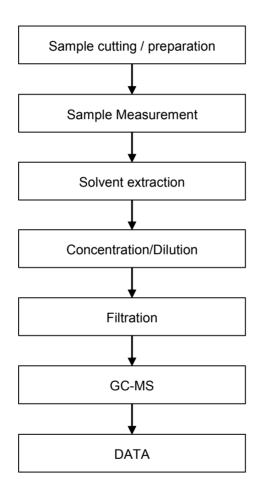
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Date: 21 Oct 2019

ATTACHMENTS

Phthalates Testing Flow Chart





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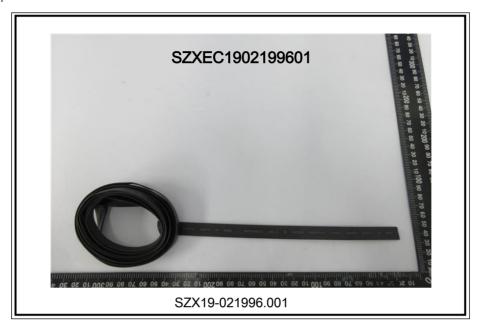
Test Report

No. SZXEC1902199601

Page 7 of 7

Date: 21 Oct 2019

Sample photo:



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*** End of Report ***





No. SZXEC1902150003

Date: 16 Oct 2019

Page 1 of 19

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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No. SZXEC1902150003 Date: 16 Oct 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:

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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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	-





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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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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
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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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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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, 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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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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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
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
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



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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)





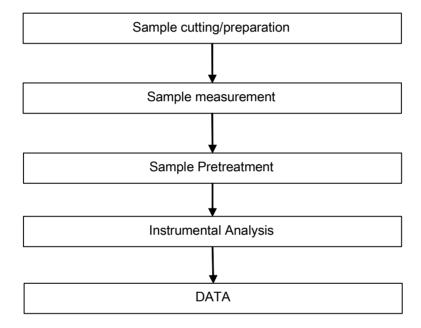
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SVHC Testing Flow Chart





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Sample photo:

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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

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