

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1473

客户料號

Cus. P/N: 170X000382

規格敘述

DESCRIPTION: Cable. 6P. Pitch=1. 0mm. 150mm

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

客户簽章

Customer Signature:

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







絕緣體

Insulation

外徑

O.D.

mm

0.70

0.55

0.80

0.60

0.90

1.05

0.80

厚度

Thickness

mm

0.20

0.11

0.20

0.11

0.20

0.20

0.20

最大導體

阻抗

Maximum

Conductor

Resistance

 Ω/Km

387

387

244

244

153

95.8

244

公差值

Tolerance

mm

 ± 0.05

 ± 0.05

 ± 0.05

 ± 0.05

 ± 0.05

 ± 0.05

 ± 0.05

最小絕緣

阻抗

Minimum

Insulation

Resistance

 $M\Omega/Km$

15

絕緣

耐電壓

(VAC/min)

Insulation

Potential

Strength

2000

導體

Conductor

構成

NO./mm

0.100/7

0.100/7

0.127/7

0.127/7

0.160/7

0.160/11

0.127/7

線號

AWG

30

30

28

28

26

24

28

額定

Range

電壓

Voltage

V

30V

溫度

Temp

°C

80°C

UIL.

1571

多

芯心

線

Top-Coated

(ATC)

Stranded

UL Product **iQ**[™]

AVLV2.E108485 - APPLIANCE WIRING MATERIAL -COMPONENT

Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

REI HSING WIRE CO LTD

56-5 JIUN-ING ST SHUH-LIN, TAIPEI HSIEN 238 TAIWAN

				kecognized Sty	les		
Single-cor	Single-conductor, thermoplastic insulation.						
1007	1164	1285	1497	1589	1723	10800	11028
1010	1180	1316	1500	1591	1726	10981	11042
1011	1185	1330	1516	1592	1789	10982	11045
1013	1198	1331	1533	1617	10064	10983	11047
1015	1199	1332	1538	1618	10070	10984	
1028	1212	1333	1569	1672	10109	10985	
1032	1213	1371	1571	1674	10198	10986	
1061	1226	1429	1577	1685	10362	10987	
1080	1227	1430	1581	1709	10368	10993	
1095	1283	1431	1584	1710	10369	11027	
Multiple-o	onductor, th	ermoplastic	insulation.				
2096	2476	2697	20005	20855	21099	21143	21458
2444	2547	2733	20080	21016	21100	21307	
2464	2555	2851	20276	21064	21101	21309	
2468	2562	2854	20850	21088	21118	21310	
Single-conductor, thermoset insulation.							
3099	3173	3271	3321	3369	3406	3512	3613
3122	3239	3275	3323	3385	3443	3587	3615
3132	3265	3289	3364	3386	3463	3590	3713
3135	3266	3302	3367	3398	3464	3610	

Table of Recognized Styles

https://iq.ulprospector.com/en/profile?e=3015

E108485

Multiple-conductor, thermoset insulation.					
4384	4478				
Single and	multiple-cor	nductor spec	ialty items.		
5140	5243				

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use. Last Updated on 2018-05-16

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2019 UL LLC"





Report No. A2210256417101012

Page 1 of 7

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	BROWN PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 6, 2021

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





Mace Sun

Reviewed by

Date

Jul. 6, 2021

No. R338852088

Hill Zheng Technical Manager

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



Report No. A2210256417101012

Page 2 of 7

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:2018	GC-MS



CTI华测检测

Test Report

Report No. A2210256417101012

Test Result(s)	Result	MDI
Tested Item(s)		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

Page 3 of 7



Report No. A2210256417101012

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

CAS#:84-69-5 Result Tested Item(s) N.D. Hexabromocyclododecane(HBCDD)

Sample/Part Description Brown 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

- Information Statement: Different Part No. with different buyer.

MDL

5 mg/kg



Report No. A2210256417101012

Test Process

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



WA LUID CO . Y ...

Page 5 of 7

CTI华测检测

Test Report





Report No. A2210256417101012

Test Report

Page 7 of 7

Photo(s) of the sample(s)

单位:cm q CTI 10 A2210256417101012

Statement:

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

*** End of report ***









Report No. A2210256417102012

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	BROWN PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 7, 2021
Test Requested	As specified by client, to test Phthalates in the submitted sample(s).
Test Method	Please refer to the following page(s).

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





Unace Sun Hill These

Hill Zheng

Reviewed by

Date

Jul. 7, 2021

No. R338851376

社論专用章 Technical Manager 「Genture Genture International Group Co.,Ltd.

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



Report No. A2210256417102012

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Phthalates	Refer to EN 14372:2004(E)	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

Page 2 of 6



Report No. A2210256417102012

Tested Item(s)	Result	MDL
Phthalates		
Di-n-octyl phthalate(DNOP) CAS#:117-84-0	N.D.	30 mg/kg
Di-isononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Di-iso-decyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Dimethyl phthalate(DMP) CAS#:131-11-3	N.D.	30 mg/kg
Diethyl phthalate(DEP) CAS#:84-66-2	N.D.	30 mg/kg
Dipropyl phthalate(DPrP) CAS#:131-16-8	N.D.	30 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	30 mg/kg
Dipentyl phthalate(DPP) CAS#:131-18-0	N.D.	30 mg/kg
Dicyclohexyl phthalate(DCHP) CAS#:84-61-7	N.D.	30 mg/kg
Diisooctyl phthalate(DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
Dinonyl phthalate(DNP) CAS#:84-76-4	N.D.	30 mg/kg
Di-n-hexyl phthalate(DNHP) CAS#:84-75-3	N.D.	30 mg/kg
Bis(2-methoxyethyl) phthalate(DMEP) CAS#:117-82-8	N.D.	30 mg/kg
Diisopentylphthalate(DIPP) CAS#:605-50-5	N.D.	30 mg/kg
Diundecyl phthalates(DUP) CAS#:3648-20-2	N.D.	30 mg/kg
N-Pentyl-isopentyl phthalate(NIPP) CAS#:776297-69-9	N.D.	30 mg/kg
[®] 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg

Page 3 of 6





Report No. A2210256417102012

Test Result(s)Image: 1,2-Benzenedicarboxylic acid,
di-C6-8-branched alkyl esters,
C7-rich(DIHP)
CAS#:71888-89-6N.D.50 mg/kgDi-2-propylheptyl phthalate(DPHpP)
CAS#:53306-54-0N.D.30 mg/kg

Sample/Part Description Brown wire jacket

Remark: -MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-⁰: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials)

consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- Information Statement: Different Part No. with different buyer.

ためののの,()、章 ()

Page 4 of 6







Photo(s) of the sample(s)



Statement:

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

*** End of report ***



Page 6 of 6





Report No. A2210256417101010

Page 1 of 7

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	GREEN PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 6, 2021

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





Mace Sun

Reviewed by

Date

Jul. 6, 2021

No. R338852088

Hill Zheng Technical Manager ting 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. A2210256417101010

Page 2 of 7

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:2018	GC-MS



CTI华测检测

Test Report

Report No. A2210256417101010

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

Page 3 of 7



Report No. A2210256417101010

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

- Information Statement: Different Part No. with different buyer.

Page 4 of 7



Report No. A2210256417101010

Test Process

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



WA LUID CO . Y ...

Page 5 of 7

CTI华测检测

Test Report





Photo(s) of the sample(s)



Statement:

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

*** End of report ***

Page 7 of 7





Report No. A2210256417102010

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	GREEN PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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	Deiheine
Supplier	Reihsing
Sample Received Date	Jul. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 7, 2021
Test Requested	As specified by client, to test Phthalates in the submitted sample(s).

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

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





Unrace Sun Hill These

Hill Zheng

Reviewed by

Date

Jul. 7, 2021

No. R338851376

社論专用章 Technical Manager 「Génitter Gesting International Group Co.,Ltd.

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



Report No. A2210256417102010

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Phthalates	Refer to EN 14372:2004(E)	GC-MS



Page 2 of 6



Report No. A2210256417102010

Test Result(s) Tested Item(s)	MDL	
	Result	MDL
Phthalates Di-n-octyl phthalate(DNOP) CAS#:117-84-0	N.D.	30 mg/kg
Di-isononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Di-iso-decyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Dimethyl phthalate(DMP) CAS#:131-11-3	N.D.	30 mg/kg
Diethyl phthalate(DEP) CAS#:84-66-2	N.D.	30 mg/kg
Dipropyl phthalate(DPrP) CAS#:131-16-8	N.D.	30 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	30 mg/kg
Dipentyl phthalate(DPP) CAS#:131-18-0	N.D.	30 mg/kg
Dicyclohexyl phthalate(DCHP) CAS#:84-61-7	N.D.	30 mg/kg
Diisooctyl phthalate(DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
Dinonyl phthalate(DNP) CAS#:84-76-4	N.D.	30 mg/kg
Di-n-hexyl phthalate(DNHP) CAS#:84-75-3	N.D.	30 mg/kg
Bis(2-methoxyethyl) phthalate(DMEP) CAS#:117-82-8	N.D.	30 mg/kg
Diisopentylphthalate(DIPP) CAS#:605-50-5	N.D.	30 mg/kg
Diundecyl phthalates(DUP) CAS#:3648-20-2	N.D.	30 mg/kg
N-Pentyl-isopentyl phthalate(NIPP) CAS#:776297-69-9	N.D.	30 mg/kg
[®] 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg

Page 3 of 6





Report No. A2210256417102010

Test Result(s) N.D. 50 mg/kg ¹1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP) CAS#:71888-89-6 Di-2-propylheptyl phthalate(DPHpP) N.D. 30 mg/kg CAS#:53306-54-0

Sample/Part Description Green wire jacket

Remark: -MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-⁰: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials)

consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- Information Statement: Different Part No. with different buyer.

いるのでの。1/2、章 00

Page 4 of 6







Report No. A2210256417102010

Photo(s) of the sample(s)



Statement:

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

*** End of report ***



Page 6 of 6





Report No. A2210256417101005

Page 1 of 7

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	RED PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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
0 1	
Supplier	Reihsing
Sample Received Date	Jul. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 6, 2021
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 MethodPlease refer to the following page(s).

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





Wrace Sun

Hill Zheng

Reviewed by

Date

Jul. 6, 2021

No. R338852088

Technical Manager

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



Report No. A2210256417101005

Page 2 of 7

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:2018	GC-MS



CTI华测检测

Test Report

Report No. A2210256417101005

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

Page 3 of 7



Report No. A2210256417101005

Test Result(s)

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

- Information Statement: Different Part No. with different buyer.

Page 4 of 7



Report No. A2210256417101005

Test Process

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



Page 5 of 7
Test Report





Photo(s) of the sample(s)



Statement:

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

*** End of report ***

Page 7 of 7





Report No. A2210256417102005

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	RED PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 7, 2021
Test Requested	As specified by client, to test Phthalates in the submitted sample(s).
Test Method	Please refer to the following page(s).

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





Grace Sun Hill These

Hill Zheng

Reviewed by

Date

Jul. 7, 2021

No. R338851376

社論专用章 Technical Manager 「Genture Genture International Group Co.,Ltd.

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



Report No. A2210256417102005

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Phthalates	Refer to EN 14372:2004(E)	GC-MS



Page 2 of 6



Report No. A2210256417102005

Test Result(s) Tested Item(s)	Result	MDL
Phthalates	Kesun	MIDL
Di-n-octyl phthalate(DNOP) CAS#:117-84-0	N.D.	30 mg/kg
Di-isononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Di-iso-decyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Dimethyl phthalate(DMP) CAS#:131-11-3	N.D.	30 mg/kg
Diethyl phthalate(DEP) CAS#:84-66-2	N.D.	30 mg/kg
Dipropyl phthalate(DPrP) CAS#:131-16-8	N.D.	30 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	30 mg/kg
Dipentyl phthalate(DPP) CAS#:131-18-0	N.D.	30 mg/kg
Dicyclohexyl phthalate(DCHP) CAS#:84-61-7	N.D.	30 mg/kg
Diisooctyl phthalate(DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
Dinonyl phthalate(DNP) CAS#:84-76-4	N.D.	30 mg/kg
Di-n-hexyl phthalate(DNHP) CAS#:84-75-3	N.D.	30 mg/kg
Bis(2-methoxyethyl) phthalate(DMEP) CAS#:117-82-8	N.D.	30 mg/kg
Diisopentylphthalate(DIPP) CAS#:605-50-5	N.D.	30 mg/kg
Diundecyl phthalates(DUP) CAS#:3648-20-2	N.D.	30 mg/kg
N-Pentyl-isopentyl phthalate(NIPP) CAS#:776297-69-9	N.D.	30 mg/kg
[©] 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg

Page 3 of 6





Report No. A2210256417102005

Test Result(s)Image: 1,2-Benzenedicarboxylic acid,
di-C6-8-branched alkyl esters,
C7-rich(DIHP)
CAS#:71888-89-6N.D.50 mg/kgDi-2-propylheptyl phthalate(DPHpP)
CAS#:53306-54-0N.D.30 mg/kg

Sample/Part Description Red wire jacket

Remark: -MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-⁰: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials)

consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- Information Statement: Different Part No. with different buyer.

ないののPCO, ()、章 ()

Page 4 of 6







Report No. A2210256417102005

Test Report

Photo(s) of the sample(s)

~ ____



Statement:

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

*** End of report ***

Page 6 of 6





Report No. A2210256417101004

Page 1 of 7

Company Name REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO., LTD shown on Report 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 applicant

Sample Name	BLACK PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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. 1, 2021
Sample Received Date	
Testing Period	Jul. 1, 2021 to Jul. 6, 2021
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).



Wrace Sun

Reviewed by

Date

Jul. 6, 2021

No. R338852088

Hill Zheng **Technical Manager** ting 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. A2210256417101004

Page 2 of 7

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:2018	GC-MS



Test Report

Report No. A2210256417101004

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

Page 3 of 7



Report No. A2210256417101004

Test Result(s)

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

- Information Statement: Different Part No. with different buyer.

Page 4 of 7



Report No. A2210256417101004

Test Process

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



Page 5 of 7

Test Report





Report No. A2210256417101004

Test Report

Photo(s) of the sample(s)

2. The Company Name shown on Report and Address, the sample(s) and sample information was/were

Statement:

CT

provided by the applicant 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;

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

A2210256417101004

11

10

Page 7 of 7





Report No. A2210256417102004

Company Name
shown on ReportREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.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 applicant

Sample Name	BLACK PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE 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
	55(KVV),OK Oulei FVC insulated wite
Supplier	Reihsing
Sample Received Date	Jul. 1, 2021
Testing Period	Jul. 1, 2021 to Jul. 7, 2021
Test Requested	As specified by client, to test Phthalates in the submitted sample(s).
Test Method	Please refer to the following page(s).

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





Unace Sun Hill These

Reviewed by

Date

Jul. 7, 2021

No. R338851376

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



Report No. A2210256417102004

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Phthalates	Refer to EN 14372:2004(E)	GC-MS



Page 2 of 6



Report No. A2210256417102004

Test Result(s) Tested Item(s)	Result	MDL
Phthalates	KtSuit	MDL
Di-n-octyl phthalate(DNOP) CAS#:117-84-0	N.D.	30 mg/kg
Di-isononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Di-iso-decyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Dimethyl phthalate(DMP) CAS#:131-11-3	N.D.	30 mg/kg
Diethyl phthalate(DEP) CAS#:84-66-2	N.D.	30 mg/kg
Dipropyl phthalate(DPrP) CAS#:131-16-8	N.D.	30 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	30 mg/kg
Dipentyl phthalate(DPP) CAS#:131-18-0	N.D.	30 mg/kg
Dicyclohexyl phthalate(DCHP) CAS#:84-61-7	N.D.	30 mg/kg
Diisooctyl phthalate(DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
Dinonyl phthalate(DNP) CAS#:84-76-4	N.D.	30 mg/kg
Di-n-hexyl phthalate(DNHP) CAS#:84-75-3	N.D.	30 mg/kg
Bis(2-methoxyethyl) phthalate(DMEP) CAS#:117-82-8	N.D.	30 mg/kg
Diisopentylphthalate(DIPP) CAS#:605-50-5	N.D.	30 mg/kg
Diundecyl phthalates(DUP) CAS#:3648-20-2	N.D.	30 mg/kg
N-Pentyl-isopentyl phthalate(NIPP) CAS#:776297-69-9	N.D.	30 mg/kg
[®] 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg

Page 3 of 6





Report No. A2210256417102004

Test Result(s)Image: 1,2-Benzenedicarboxylic acid,
di-C6-8-branched alkyl esters,
C7-rich(DIHP)
CAS#:71888-89-6N.D.50 mg/kgDi-2-propylheptyl phthalate(DPHpP)
CAS#:53306-54-0N.D.30 mg/kg

Sample/Part Description Black wire jacket

Remark: -MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-⁰: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials)

consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- Information Statement: Different Part No. with different buyer.

ないののPCO, ()、章 ()

Page 4 of 6







Photo(s) of the sample(s)



Statement:

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

*** End of report ***



Page 6 of 6





Report No. A2210256417104001 Page 1 of 16

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA
	e(s) and sample information was/were submitted and identified by/on the behalf of the
applicant Sample Name	BLUE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE UL1007,1015,1571,1061,1028,1032,1080, 1095,
i ultito.	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,
a 1'	CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	
Testing Period	Jul. 1, 2021 to Jul. 9, 2021
Test Requested	 1.As specified by client, to screen the 211 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s). 2.As specified by client, to screen the 8 substances published on March 9th 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).
Summary	 1.According to the analytical results, concentrations of 211 SVHC substances are all less than 0.1% (w/w) in the submitted sample(s). 2.According to the analytical results, concentrations of 8 substances for intention for identification of SVHC are all less than 0.1% (w/w) in the submitted sample(s).

Tested by

Surry Lin Hill Theory

Reviewed by

Nor

tional Group Co.,Ltd.

Hill Zheng

Date

Jul. 9, 2021

Technical Manager

No. R338852112

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



Report No. A2210256417104001

Page 2 of 16

Test Result(s) 1

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
-	-	All tested SVHC (See the candidate list)	_	_	N.D.	-

Test Result(s) 2

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
-	-	All tested intention for identification of SVHC (See the list of intention for identification of SVHC(Published on March 9 th 2021))	-	-	N.D.	-

Test Method:

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016 for sample pretreatment. Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID and LC-MS-MS.

Sample/Part Description Blue wire jacket

Test Report

Report No. A2210256417104001

Remark:

- The table of tested result(s) only shows detected SVHC/intention for identification of SVHC, and SVHC/intention for identification of SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC/ intention for identification of SVHC on next pages.
- 2. w/w = weight by weight; 0.1% = 1000 mg/kg = 1000 ppm
- 3. N.D. = Not Detected (<report limit)
- 4. *: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin, [Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monooctyl Tins(MOT)).
- **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
- 6. ***: C.I.: Colour Index
- 7. ****: Light fractions from distillation
- 8. *****: Concentration value of Disodiumtetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodiumtetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
- 9. Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds(2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
- 10. ⁽¹⁾: In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
- 11. ⁽²⁾: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
- 12. Information Statement: Different Part No. with different buyer.

Page 3 of 16



Report No. A2210256417104001

Page 4 of 16

Candidate List of SVHC

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
Ι	1	Anthracene	120-12-7	204-371-1	0.005
Ι	2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005
Ι	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.005
Ι	4	Cobalt dichloride*	7646-79-9	231-589-4	0.01
Ι	5	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
Ι	6	Diarsenic trioxide*	1327-53-3	215-481-4	0.01
Ι	7	Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
Ι	8	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	201-329-4	0.005
Ι	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	0.005
Ι	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 221-695-9	0.005
Ι	11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	287-476-5	0.01
Ι	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
Ι	13	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
Ι	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.005
Ι	15	Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	16	[®] Anthracene oil	90640-80-5	292-602-7	0.05
II	17	[®] Anthracene oil, anthracene paste, distn. lights ****	91995-17-4	295-278-5	0.05
II	18	^¹ Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
II	19	[®] Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	¹⁰ Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	^{[®]Pitch, coal tar, high-temp.}	65996-93-2	266-028-2	0.05
II	22	Acrylamide	79-06-1	201-173-7	0.01
II	23	2,4-dinitrotoluene	121-14-2	204-450-0	0.01
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
II	25	[©] Lead chromate	7758-97-6	231-846-0	0.05
II	26	[®] Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05

Test Report

Report No. A2210256417104001

Page 5 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
II	27	[®] Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.01
III	29	Trichloroethylene	79-01-6	201-167-4	0.005
III	30	Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	31	[©] Disodium tetraborate, anhydrous****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	32	[©] Tetraboron disodium heptaoxide, hydrate****	12267-73-1	235-541-3	0.01
III	33	Sodium chromate*	7775-11-3	231-889-5	0.01
III	34	Potassium chromate*	7789-00-6	232-140-5	0.01
III	35	Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	36	Potassium dichromate*	7778-50-9	231-906-6	0.01
IV	37	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	39	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	41	2-methoxyethanol	109-86-4	203-713-7	0.005
IV	42	2-ethoxyethanol	110-80-5	203-804-1	0.005
IV	43	Chromium trioxide*	1333-82-0	215-607-8	0.01
IV	44	¹⁰ Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
V	46	Strontium chromate*	7789-06-2	232-142-6	0.01
V	47	[®] 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.01
V	48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
V	49	1-methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	0.01
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.01
v	51	¹ 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01
VI	52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01
VI	53	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.01

ī

3

1.00

Test Report

Report No. A2210256417104001

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VI	54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	55	²² Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05
VI	56	²² Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	57	^{[®]Formaldehyde, oligomeric reaction products with aniline[▲]}	25214-70-4	500-036-1	0.01
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
VI	59	2-Methoxyaniline(o-Anisidine)	90-04-0	201-963-1	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	0.005
VI	61	1,2-dichloroethane	107-06-2	203-458-1	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
VI	63	Arsenic acid*	7778-39-4	231-901-9	0.01
VI	64	Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	65	Trilead diarsenate*	3687-31-8	222-979-5	0.01
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
VI	68	Phenolphthalein	77-09-8	201-004-7	0.005
VI	69	Lead diazide, Lead azide*	13424-46-9	236-542-1	0.01
VI	70	Lead styphnate*	15245-44-0	239-290-0	0.01
VI	71	Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
VII	74	Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	75	Formamide	75-12-7	200-842-0	0.01
VII	76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01
VII	77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazina ne-2,4,6-trione (TGIC)	2451-62-9	219-514-3	0.01
VII	78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	0.01
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01
VII	80	N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01

-

Test Report

Report No. A2210256417104001

Page 7 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VII	81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylid ene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	208-953-6	0.01
VII	82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)***	2580-56-5	219-943-6	0.01
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1- methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	0.01
VII	84	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol	561-41-1	209-218-2	0.01
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.05
VIII	86	[®] 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	0.05
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	204-650-8	0.05
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	0.05
VIII	89	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	90	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	0.05
VIII	91	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	201-604-9 236-086-3 238-009-9	0.05

¶ ™

Test Report

Report No. A2210256417104001

Page 8 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
		Hexahydromethylphthalic anhydride,	25550-51-0	247-094-1	
VIII	92	Hexahydro-4-methylphthalic anhydride,	19438-60-9	243-072-0	0.05
VIII	92	Hexahydro-1-methylphthalic anhydride,	48122-14-1	256-356-4	0.05
		Hexahydro-3-methylphthalic anhydride	57110-29-9	260-566-1	
VIII	93	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.05
VIII	95	¹ 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
VIII	96	n-pentyl-isopentylphthalate	776297-69-9	933-378-9	0.05
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	0.05
VIII	98	Tricosafluorododecanoic acid	307-55-1	206-203-2	0.05
VIII	99	1,2-diethoxyethane	629-14-1	211-076-1	0.05
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2	421-150-7	0.05
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.05
VIII	102	N-methylacetamide	79-16-3	201-182-6	0.05
VIII	103	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01
VIII	110	Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	114	Furan	110-00-9	203-727-3	0.05
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	116	Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	118	Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	120	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	122	<i>o</i> -Toluidine	95-53-4	202-429-0	0.05

Test Report

Report No. A2210256417104001

Page 9 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VIII	123	o-aminoazotoluene	97-56-3	202-591-2	0.05
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	0.05
VIII	125	6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	204-419-1	0.05
VIII	126	Dibutyltin dichloride (DBTC)*	683-18-1	211-670-0	0.05
VIII	127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	0.05
IX	139	Cadmium	7440-43-9	231-152-8	0.01
IX	140	Cadmium oxide*	1306-19-0	215-146-2	0.01
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01
IX	142	[®] 4-Nonylphenol, branched and linear, ethoxylated[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	0.05
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01
Х	145	^① Trixylyl phosphate	25155-23-1	246-677-8	0.01
Х	146	Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phe nylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.01
X	147	Dihexyl phthalate	84-75-3	201-559-5	0.01
		J-r			

Test Report

Report No. A2210256417104001

Page 10 of 16

-

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
Х	148	Cadmium sulphide*	1306-23-6	215-147-8	0.01
Х	149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'- diylbis(azo)]bis(4-aminonaphthalene- 1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	0.01
Х	150	Lead di(acetate)*	301-04-2	206-104-4	0.01
Х	151	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.01
XI	152	⁽¹⁾ 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
XI	153	Cadmium chloride*	10108-64-2	233-296-7	0.01
XI	154	[©] Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	155	²² Sodium peroxometaborate****	7632-04-4	231-556-4	0.01
XII	156	2-(2H-Benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.01
XII	157	2-Benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	223-346-6	0.01
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl- 7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	0.05
XII	159	Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	160	Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XII	161	[®] Reaction mass of 2-ethylhexyl 10- ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2- ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	-	0.05
XIII	162	^① 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 (EC No. 201- 559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	0.05



Report No. A2210256417104001

Page 11 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XIII	163	⁽¹⁾ 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 stereoisomers of [1] and [2] or any combination thereof]	-	-	0.05
XIV	164	Nitrobenzene	98-95-3	202-716-0	0.01
XIV	165	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.01
XIV	166	2-(2H-benzotriazol-2-yl)-4- (tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01
XIV	167	1,3-propanesultone	1120-71-4	214-317-9	0.01
			375-95-1	206-801-3	
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	21049-39-8	-	0.01
		and animomum saits	4149-60-4	-	
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01
XVI	170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01
		Name da a flara da cara da cara da CDED A) and	3108-42-7	221-470-5	
XVI	171	Nonadecafluorodecanoic acid (PFDA) and	335-76-2	206-400-3	0.01
		its sodium and ammonium salts	3830-45-3	-	
XVI	172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01
XVI	173	^① 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	0.05
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.0005
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	-	0.01
XVIII	176	Benzo[a]anthracene	56-55-3	200-280-6	0.01
XVIII	177	Cadmium nitrate*	10325-94-7	233-710-6	0.01
XVIII	178	Cadmium carbonate*	513-78-0	208-168-9	0.01



Report No. A2210256417104001

Page 12 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XVIII	179	Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XVIII	180	Chrysene	218-01-9	205-923-4	0.01
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 (4-HPbl)]	-	-	0.05
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
XIX	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
XIX	185	Lead	7439-92-1	231-100-4	0.01
XIX	186	Disodium octaborate*	12008-41-2	234-541-0	0.01
XIX	187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01
XIX	188	[®] Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01
XIX	189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01
XX	192	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	401-720-1	0.01
XX	193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
XX	194	Fluoranthene	206-44-0	205-912-4	0.01
XX	195	Phenanthrene	85-01-8	201-581-5	0.01
XX	196	Pyrene	129-00-0	204-927-3	0.01
XX	197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	239-139-9	0.01
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)	-	-	0.01
XXI	199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
XXI	200	4-tert-butylphenol	98-54-4	202-679-0	0.01
XXI	201	[®] Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01

Test Report

Report No. A2210256417104001

Page 13 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXII	202	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	404-360-3	0.01
XXII	203	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5	400-600-6	0.01
XXII	204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01
XXIII	206	1-vinylimidazole	1072-63-5	214-012-0	0.01
XXIII	207	2-methylimidazole	693-98-1	211-765-7	0.01
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin *	22673-19-4	245-152-0	0.05
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety *	-	-	0.05

List of intention for identification of SVHC (Published on March 9th 2021)

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXV	1	1,4-dioxane	123-91-1	204-661-8	0.01
XXV	2	2,2-bis(bromomethyl) propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1 -propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9	0.01
XXV	3	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.01
XXV	4	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B) (BPB)	77-40-7	201-025-1	0.01
XXV	5	Glutaral	111-30-8	203-856-5	0.01



Report No. A2210256417104001

Page 14 of 16

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXV	6	[®] Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	-	0.01
XXV	7	Orthoboric acid, sodium salt *	13840-56-7	237-560-2	0.01
xxv	8	[®] Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	0.01



Report No. A2210256417104001

Page 15 of 16

Appendix:

- Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
- 2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
- 3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

Test Process




Page 16 of 16

Report No. A2210256417104001

Photo(s) of the sample(s)



Statement:

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

*** End of Report ***



No. SZXEC2101211304

Date: 30 Apr 2021

Page 1 of 6

SINWA LASER TECHNOLOGY CO., LTD

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

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

SGS Job No. :	RP21-009316 - SZ
Model No. :	I-PVC-02
Date of Sample Received :	25 Apr 2021
Testing Period :	25 Apr 2021 - 29 Apr 2021
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

Kitty Xu Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or enail: <u>CN.Doccheck@sgs.com</u> SS Blø, Mo, Janghao Industa PAK, MA, Jana Rod, Bantan, Longgang Distid, Shenzhen, China 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgsgroup.com.cn rel x?#1 . 尤岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211304

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX21-012113.002	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+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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<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 (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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Cond

SGS Bldg, No.4, Jianghao Industrial Park, No.430, Jhua Road, Bantan, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国·深圳·龙岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



Test Report	No. SZXEC210121130	04	Date: 3	30 Apr 2021	Page 3 of 6
<u>Test Item(s)</u>	<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 Phthalate (DIBP)	1,000	mg/kg	50	ND	

Notes :

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

(2) 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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, and its advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to tis Client and this document to does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document is content be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@ass.com

SGS Bldg, No.4, Janghao Industrial Park, No.430, Jitua Road, Bantian, Longgang Distrid, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江灝工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211304

Date: 30 Apr 2021

Page 4 of 6

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, and its and the service of the se

SGS Bidg, No.4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang Distrid, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211304

Date: 30 Apr 2021

Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@aspx.com

SGS Bidg, No4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4拣SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211304

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to dees not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ass.com

SGS Bidg, No.4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. CANEC2102611101

Date: 03 Mar 2021

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. :	CP21-006792 - GZ
Main Substance :	Cu
Date of Sample Received :	25 Feb 2021
Testing Period :	25 Feb 2021 - 03 Mar 2021
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



Allie Chen

Allie Chen Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Condi

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sasaroup.com.cn

t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2102611101

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-026111.001	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.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: Ch.Doccheck@sgs.com (18/8/buthel% Advanzbulzenomick & lebnokou/DevelomentDistidQuanzbulChing 510663 t/ (86-20) 8215555 www.sgsgroup.com.cn

t (86-20) 82155555 www.sasaroup.com.cn

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Gua	angzhou,China 510663	
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 sgs.china@sgs.com



Test Report	No. CANEC21026111	01	Date: ()3 Mar 2021	Page 3 of 7
<u>Test Item(s)</u>	<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.

(2) 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

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

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

Elementary Analysis

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or rappearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Attention: to check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-/55)830 / 14 or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Rad Schrieb Park (anorbini-Eporomic Allechnolov Development District Guanzhou China, 510663, t/ (86-20) 82155555, www.sosoroup.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 中国 • 广州 • 经济技术开发区科学城科珠路198号 邮编: 510663



No. CANEC2102611101

Date: 03 Mar 2021

Page 4 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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to eso not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

remail: <u>CN.Doccheck@sgs.com</u>

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2102611101

Date: 03 Mar 2021

Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart





198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555

sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2102611101

Date: 03 Mar 2021

Page 6 of 7

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, n report & certificate, please contact us at telephone: (86-755) 8307 1443,

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn sgs.china@sgs.com

t (86-20) 82155555 Member of the SGS Group (SGS SA)



No. CANEC2102611101

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Cond

or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 www.sgsgroup.com.cn

rso Addu road, Scened Far Guargarou Economic & reamongy Development Distric, Guargarou, Smart S 10663 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 www.sgsgroup.com. t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

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. :	CP21-006792 - GZ
Main Substance :	Sn, Cu
Date of Sample Received :	25 Feb 2021
Testing Period :	25 Feb 2021 - 03 Mar 2021
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

Allie Chen

Allie Chen Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@esg.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sasaroup.com.cn

t (86-20) 82155555 Member of the SGS Group (SGS SA)

sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

Page 2 of 12

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-026111.002	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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<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 (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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: Ch.Doccheck@sgs.com (18/8/buthel% Advanzbulzenomick is therbony/bevionment/DistrictQuanzbulChing 510663 to (86-20) 8215555 www.sgsgroup.com.cn

t (86-20) 82155555 www.sasaroup.com.cn

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, G	Guangzhou, China 510663
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 sgs.china@sgs.com



Test Report	No. CANEC210261110)2	Date: 0	3 Mar 2021	Page 3 of 12
<u>Test Item(s)</u>	Limit	<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.

(2) 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

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

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

Elementary Analysis

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

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

AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end



Test Report	No. CANEC2102611102	Date: 03 Mar 2021	Page	e 4 of 12
<u>Test Item(s)</u>	CAS NO	<u>D.</u> <u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	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	2 mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	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	2 mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	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	2 mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyre Fluoranthene)	ne, Anthracene, -	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/terms-end-terms-end-conditions/terms-end-condition/terms-e

N.D

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 邮编: 510663 中国 · 广州 · 经济技术开发区科学城科珠路198号

t (86-20) 82155555 www.sgsgroup.com.cn sgs.china@sgs.com t (86-20) 82155555



No. CANEC2102611102

Date: 03 Mar 2021

Page 5 of 12

AfPS (German commission for Product Safety): PAHs requirements

	Category 1	Cate	egory 2	Catego	ory 3
Parameter (mg/kg)	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^o with skin dwing the intended or		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
	or -for the use by children ^{a,b} up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	9	< 2	< 1	0
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

^aA "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

° Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Perfluorooctane sulfonates (PFOS) and its derivatives

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to eso not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, n report & certificate, please contact us at telephone: (86-755) 8307 1443, ina/ins

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sasaroup.com.cn

sgs.china@sgs.com



Test Report	No. CANEC2102	2611102	Date: 03 Mar 2021	Page	6 of 12
<u>Test Item(s)</u>		<u>CAS NO.</u>	Unit	<u>MDL</u>	<u>002</u>
Perfluorooctane sulfonates (PFOS)	٨	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOS	SA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonan	nide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamic	de (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfor -ethanol(MeFOSE)	namido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfona -ethanol(EtFOSE)	mido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS)	and its derivatives	-	mg/kg	-	ND

Notes :

(1) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Condi

or email: <u>CN.Doccheck@sgs.com</u> 1198 Kezhu Road.Scientech Park Guanozhou Economic & Technology Development District, Guanozhou, China 510663. t (86-20) 82155555 www.sgsgroup.com.cn

198 Kezhu Road, Scientech F	Park Guangzhou Economic & Technology Development Dist	nd,Guangznou,China 510663
中国·广州·经济	F技术开发区科学城科珠路198号	邮编: 510663

t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to eso not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443,

or email: CN.Doccheck@sgs.com 198 Kezhu Road Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 www.sgsgroup.com

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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

Page 8 of 12

ATTACHMENTS

Phthalates Testing Flow Chart





198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

Page 9 of 12

ATTACHMENTS

PAHs Testing Flow Chart





198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

Page 10 of 12

ATTACHMENTS

PFOA / PFOS Testing Flow Chart





198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2102611102

Date: 03 Mar 2021

Page 11 of 12

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, n report & certificate, please contact us at telephone: (86-755) 8307 1443,

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn sgs.china@sgs.com t (86-20) 82155555



No. CANEC2102611102

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document commot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com (808/kBu/Red/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgs/SaletArdAgags/SaletArdAgs/SaletArdAgags/SaletArd

198 Kezhu Road, Scientech Park Guangzhou Econo	omic & lechnology Development District, C	suangznou, Unina	510663
中国·广州·经济技术开发区	科学城科珠路198号	邮编:	510663

sgs.china@sgs.com t (86-20) 82155555



No. SZXEC2101211301

Date: 30 Apr 2021

Page 1 of 6

SINWA LASER TECHNOLOGY CO., LTD

50.WU KONG 5 TH RD., WU KU INDUSTRIAL PARK, TAIBEI 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. :	RP21-009316 - SZ
Model No. :	I-PVC-01
Date of Sample Received :	25 Apr 2021
Testing Period :	25 Apr 2021 - 29 Apr 2021
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

Kitty Xu Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@asgs.com mains. SoS Big.Nod, Jangtao Industral Pax, M.A.W., Jhua Read, Bantan, Longgarg District, Sherzhen, Clina 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgsgroup.com.cm refl <\argslin \structure mail: CM.Doccheck@asg.com mains.com mains.com



No. SZXEC2101211301

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX21-012113.001	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+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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Cond

SGS Bldg, No.4, Jianghao Industrial Park, No.430, Jhua Road, Bantan, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国·深圳·龙岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



Test Report	No. SZXEC2101211301		Date: 30 Apr 2021		Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<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)	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 Phthalate (DIBP)	1,000	mg/kg	50	ND	

Notes :

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

(2) 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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, and its advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to tis Client and this document to does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document is content be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@ass.com

SGS Bldg, No.4, Janghao Industrial Park, No.430, Jitua Road, Bantian, Longgang Distrid, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国·深圳·龙岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211301

Date: 30 Apr 2021

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Docche

SGS Bidg, No.4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang Distrid, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江灝工业园4栋SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211301

Date: 30 Apr 2021

Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@aspx.com

SGS Bidg, No.4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4拣SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



No. SZXEC2101211301

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to dees not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ass.com

SGS Bidg, No4, Janghao Industrial Park, No.430, Jihua Road, Bantian, Longgang District, Shenzhen, China 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 www.sgsgroup.com.cn 中国・深圳・龙岗区坂田吉华路430号江源工业园4拣SGS大楼 邮编: 518129 t (86 - 755) 25328888 f (86 - 755) 83106190 e sgs.china@sgs.com



A 1	B	С	D		E			F	/
环保物料			Specifications:			Dimensio	nal Order	ina Info	rmation: 1
			Rated Voltage		C	Circuits		nension	
0.250		– Mark	Rated Current		•	Part No	A	B	C
	I		Withstand Volt	,	AC/minute	2P	1.00	2.40	5.00 -
		e'	Contact Resis			3P	2.00	3.40	6.00
	制度则度则度则度比。	กิ	Insulation Res	sistance : 100	$D\dot{M}\Omega(M\dot{N}.)$	4P	3.00	4.40	7.00 2
			Temperature f	Range :-25°C	~+85°C	5P	4.00	5.40	8.00
						6P	5.00	6.40	9.00
		50		\sim		7P	6.00	7.40	10.00
		0.2		Re .		8P	7.00	8.40	11.00
$3 \qquad \qquad A \pm 0$).20) 干(Ro	9P	8.00	9.40	12.00 3
		.40			HB a	10P	9.00	10.40	13.00
C±0	0.25		2.78±0.25			11P	10.00	11.40	14.00
						12P		12.40	15.00
						13P		13.40	16.00
	└ └┓ │ │ │ │ │	06.			¥	14P	13.00	14.40	17.00 4
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │	║┛┼┨╟┼┨║┛┼┨║╵╵	00				15P		15.40	18.00
──│	║┽╫╠┽╢╠┽╢╔┽╢╵	1				16P		16.40	19.00
		FOO				17P		17.40	20.00 -
	╨╴╷╜┹╷╜╨╴╜╙╶╴╜┤╎					18P		18.40	21.00
	╎└┼┘┕┼┘┕┼┘ <mark>┝┼┤</mark> ┠┘	0.50	I M I			19P		19.40	22.00 5
						20P		20.40	23.00
	0.20					21P		21.40	24.00
	5.20 -		2.08			24P		24.40	27.00
$\begin{array}{c} 6 \\ \hline 11002H00 \\ \hline 0 \\ \hline 0 \\ \hline 3 \\ \hline 0 \\ \hline 5 \\ \hline 6 \\ \hline \end{array}$	Suitable for JCT	C 11002 series term	inal 🔨 181	P~2.11		30P	29.00	30.40	33.00 6
③ Series No.	Part No.	Material	Color	P	art No.	Mater	rial	Co	lor
② H90 : Side Contact H00 : Up Contact	11002H00-NP	PBT,UL94V-0	Natural(White)		0-NP-NK	PBT,UL9			l(White)
(3) No. of Circuits	11002H00-NPA	PBT,UL94V-0	Black	_	0-NPA-NK	PBT,UL9			ack /
$\overline{4}$ A: Product color (AY)	11002H00-NPC	Nylon 66,UL94V-0	Red		0-NPC-NK	Nylon 66,U			ed _
Blank : Natural type	11002H00-NPE	Nylon 66,UL94V-0	Yellow	_	0-NPE-NK	Nylon 66,l	JL94V-0		llow /
5 HF : Halogen Free	11002H00-NP-HF	Nylon 66,UL94V-0	Natural(White)		0-NP-HF-NK	Nylon 66,l			l(White)
lank: Mark NK: No Mark	11002H00-NPA-H	- Nylon 66,UL94V-0	Black	11002H0	0-NPA-HF-NK	Nylon 66,l	JL94V-0	Blo	ack
С4 12.07.24 將18Р主体厚度由2.08或为2.1	1 龚友连 王志刚	一般公差GENERAL TOLERANCE	会 图 DR. 欧阳小强	_ICTE® #	F莞市胜蓝电子	·有限公司	料号 PART		
8 C3 11.07.19 主体增加"HF"	龚友连 王志刚	X.X ±0.25 X° ±5° X XX ±0.15 X.X° ±2°	校对 泰友连		— 富强电子		11002h 文件编号	100-NPX-	-XX-XX
C2 10.11.25 ####################################	龚友连 王志刚	X.XX ±0.15 X.X° ±2° X.XXX ±0.08 ▲ MAJOR DIM.	UHK.	品名TITLE		,	- 又件编号 - ENDE(ľ
C1 10.07.06 新增24P,30P規格	龚友连 王志刚				m PITCH HOUS	NG	比例SCALE	SHEET	版次 REV.
版次REV 日期 DATE 变更内容 DESCRIPTION	审核 CHK. 核准 APPD.		APPD.	1	_	1	1/1	1/1	C4
_/ A	B	С	l D		E	I		F	\

ONLINE CERTIFICATIONS DIRECTORY

SIMPROVED CERTIFICATIONS SEARCH TOOL. REGISTER NOW! OLEARNMORE

ECBT2.E338796

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

If you notice a change to your ECBT2 Listing Card, click here to learn more.

Page Bottom

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

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

SHENGLAN TECHNOLOGY CO LTD

No.4 Hexing Rd Shatou Southern District Changan Town 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.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Connectors, Model(s) Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Connectors, Model(s) Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Connectors, Model(s) Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Connectors, Model(s) Cat. No. 11253H, followed by -20 or -30, followed by P.

Connectors, Model(s) Cat. No. 11253W, followed by -20 or -30, followed by P.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Connectors, Model(s) Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Connectors, Model(s) Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

E338796

ECBT2.E338796 - Connectors for Use in Data, Signal, Control and Power Applications - Component

Connectors, Model(s) Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Connectors, Model(s) Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P.

Connectors, Model(s) Cat. No. 12543H, followed by -2 thru -20, followed by P.

Connectors, Model(s) Cat. No. 12547H00, followed by -3 thru -8, followed by P.

Connectors, Model(s) 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.

Connectors, Model(s) 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.

Connectors, Model(s) Cat. No. 22001H, followed by -2 thru -16, followed by P.

Connectors, Model(s) Cat. No. 22501H, followed by -2 thru -14, followed by P.

Connectors, Model(s) Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.

Connectors, Model(s) Cat. Nos. 11001H and 11001W, followed by -30, followed by P.

Connectors, Model(s) Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.

Connectors, Model(s) Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.

Connectors, Model(s) Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.

Connectors, Model(s) Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.

Connectors, Model(s) Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.

Connectors, Model(s) Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.

Connectors, Model(s) Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.

Connectors, Model(s) Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.

Connectors, Model(s) Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.

Connectors, Model(s) Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.

Connectors, Model(s) Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.

Connectors, Model(s) Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.

Connectors, Model(s) Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.

Connectors, Model(s) Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.

Connectors, Model(s) Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.

Connectors, Model(s) Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.

Connectors, Model(s) Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.

Connectors, Model(s) Cat. Nos. 51274H-7P and 51275H-7P.

Model(s) BCUM-200A-PE, BICF-200A-PE, HS-0021-PC-GY, HS-0023-PC-GY

Marking: Company name and model designation on the device or carton. <u>Last Updated</u> on 2018-11-15

Jestion	

Terms of Use
ECBT2.E338796 - Connectors for Use in Data, Signal, Control and Power Applications - Component

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2018 UL LLC".



No. CANEC2116822401

Date: 16 Sep 2021

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 UL94V-0 Natural color Housing

SGS Job No. :	CP21-048910 - SZ
Model No. :	12502
Client Ref. Info. :	PLEASE SEE REMARK
Date of Sample Received :	08 Sep 2021
Testing Period :	08 Sep 2021 - 16 Sep 2021
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
Red Phosphor	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Phthalates	See Results
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
European Regulation POPs (EU) 2019/1021 – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
Hexabromocyclododecane (HBCDD)	See Results
Phthalate(s)	See Results



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to are concerted parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To.check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gsg.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn sas.china@sas.com

t (86-20) 82155555

Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

Page 2 of 19

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

Saca 2hi

Sasa Zhi Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2116822401

Page 3 of 19

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-168224.001	White plastic

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN Doccheck@sac.com

or email: CN.Doccheck@sgs.com		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,
198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guang	zhou, China 510	663 t (86–2	0) 82155555 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:510	663 t (86–2	0) 82155555 sgs.c	china@sgs.com



Test Report	No. CANEC21168224	01	Date: 1	6 Sep 2021	Page 4 of 19
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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.

(2) 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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to EPA 3052:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

Red Phosphor

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Red phosphorus	mg/kg	500	ND

Tetrabromobisphenol A (TBBP-A)

Test Method : SGS In-house method (GZTC CHEM-TOP-065, With reference to EPA 3540C:1996 & EPA 8270E:2017), analysis was performed by LC-MS/MS.





Test Report	No. CANEC2116822401	Date: 16 Sep 2021	Page 5 of 19

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	5	ND

Phthalates

Test Method : With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.005	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.005	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.005	ND
Dipentyl Phthalates (DPENP/DnPP)	131-18-0	%(w/w)	0.005	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.005	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.005	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.005	ND
alkyl esters,C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.005	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

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

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or regults shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: <u>CM.Doccheck@sgs.com</u>

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzho	u,China 510663	t (86–20) 82155555
中国・广州・经济技术开发区科学城科珠路198号 的	邮编: 510663	t (86–20) 82155555

www.sgsgroup.com.cn

sas.china@sas.com



Test Report	No. CANEC2116822401		Date: 16 Sep 2021	Page 6 of 19	
<u>Test Item(s)</u> N-methylperfluoro-1-octanesulfonari N-ethylperfluoro-1-octanesulfonari 2-(N-methylperfluoro-1-octanesulfo -ethanol(MeFOSE) 2-(N-ethylperfluoro-1-octanesulfona -ethanol(EtFOSE) Perfluorooctane sulfonates (PFOS)	de (EtFOSA) namido) imido)	CAS NO. 31506-32-8 4151-50-2 24448-09-7 1691-99-2 -	<u>Unit</u> mg/kg mg/kg mg/kg mg/kg	<u>MDL</u> 0.010 0.010 0.010 0.010	001 ND ND ND ND
derivatives					

Notes :

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Naphthalene(NAP)	91-20-3	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 4 PAHs (Phenanthrene, Pyrene, Anthracene,	-	mg/kg	-	ND
Fluoranthene)				
Sum of 15 PAHs	-	mg/kg	-	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or resputs shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

100 1 at District Own zhou.China 510663 t (86-20) 82155555 www.sgsgroup.com.cn

The real in road, Science in Fair Suangzhou Economic & real indigg Development Distric, Suan	nyznou, onina	510003
中国・广州・经济技术开发区科学城科珠路198号	邮编:	510663

Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

Page 7 of 19

AfPS (German commission for Product Safety) : PAHs requirements

	Category 1	Categ	jory 2	Categ	ory 3
Parameter (mg/kg)	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use	Addition to be puth, or us into constant of the second sec		Materials cov by category category 2, o short-term cc 30s) with skin intended or f use	y 1 nor by coming into ontact (up to n during the oreseeable
	-in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	<	2	< 1	0
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

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

Test Method : With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS / LC-MSMS.





Test Report	No. CANEC2116822401	Date: 16	6 Sep 2021	Pa	ge 8 of 19
<u>Test Item(s)</u> Alkanes C10-C13, chloro (short-chai Comment Alkanes C14-C17, chloro (medium -c (MCCPs)		<u>Limit</u> 1500 -	<u>Unit</u> mg/kg mg/kg	<u>MDL</u> 50 50	<u>001</u> ND PASS ND
Hexabromocyclododecane (HBCD	<u>D)</u>				
Test Method : SGS in house me was performed by	thod (GZTC CHEM-TOP-073, with GC-MS.	reference	to EPA 355	0C:2007),	analysis
<u>Test Item(s)</u> Hexabromocyclododecane (HBCDD diastereoisomers identified (α-HBCD γ-HBCDD)	-		<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>001</u> ND
Phthalate(s)					
Test Method : With reference to	SGS in house method (SGS-CCL-	TOP-042-4	1) . analvsi	s was perf	ormed by

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

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sacc.mm

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555

中国了加强加及不力及应件于纵杆水田1305	mbaur 010002
中国・广州・经济技术开发区科学城科珠路198号	邮编: 510663

sgs.china@sgs.com



No. CANEC2116822401

Date: 16 Sep 2021

Page 9 of 19

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、11271、11500、11501、11502、11503、11504、11505、11506、11508、11800、11801、 12001、12002、12003、12004、12005、12006、12007、12008、12009、12010、12011、12012、 12013、12014、12015、12016、12017、12018、12019、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、15101、15080、 17921、20001、20501、20502、20503、20602、20800、20803、21001、21251、21501、21502、 21611、21811、21813、21814、21816、21817、21818、21819、22001、22002、22501、23501、 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、40560、40561、40562、40583、40584、40586、41001、41002、41003、 41004、41005、41019、41040、41043、41251、42003、50001、50003、50004、50005、50006、 50007、50501、50601、50602、50801、50802、51001、51050、51271、51272、51274、51275、 51276、51277、51278、51279、51280、51351、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、 61014、61100、61270、62001、62291、62771、62772、63100、64001、64100、65000、65001、 65003、65004、67500、69500、70001、70002、70003、70004、70500、70501、70600、70801、 70802、70901、70910、71008、71101、72001、72007、72008、72010、72101、80001、80202、 8060、80601、80802、81272、81290、81290、86502、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、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、M0054-SUS-PA、C11-060-06-AG160、6000M0F-0S-4、6000M0F-0S-4-B、 BS0128-NY-BK、BS0127-NY-BK、HF96-2XXX-XB01



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction Issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gsg.com

or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 www

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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

Page 10 of 19

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or rappearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN_Doccheck@sgs.com

of email. <u>CN.Doccheck@sgs.com</u>		
198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, G	uanazhou China 510662	
Too heard hoad, out hour and out any and any and a solution of the monogy better phane, o	daligenou,onina 510003	
中国 · 广州 · 经济技术开发区科学城科珠路198号	邮编: 510663	
千酉 7 川 经历政不开及应付于规行环境1005	mpsm. 010000	

t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2116822401

Date: 16 Sep 2021

Page 11 of 19

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> District Oursembary Ohine Ed Or t (86-20) 82155555 www.sgsgroup.com.cn

1		
	中国·广州·经济技术开发区科学城科珠路198号 邮编:	510663
	196 Rezhu Road, Scientech Park Guangzhou Economic & rechnology Development District, Guangzhou, Chima	510663

t (86-20) 82155555 sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

Page 12 of 19

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> District Oursembary Ohine Ed Or t (86-20) 82155555 www.sgsgroup.com.cn

1		
	中国·广州·经济技术开发区科学城科珠路198号 邮编:	510663
	196 Rezhu Road, Scientech Park Guangzhou Economic & rechnology Development District, Guangzhou, Chima	510663

t (86-20) 82155555 sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

ATTACHMENTS

HBCDD Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

mail: <u>CN.Doccheck@sgs.com</u> 100 1/ mont District Quanazhou China E40000 t (86-20) 82155555 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
	130 Rezhu Ruau, Sulenieur Faik Guangzhoù Economic & reuniology Development District, Si	ualiyzilou, cililia 510663

t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2116822401

Date: 16 Sep 2021

Page 14 of 19

ATTACHMENTS

PAHs Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

mail: <u>CN.Doccheck@sgs.com</u> 100 1 mont District Quanazhou China E40000 t (86-20) 82155555 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
130 Rezhu Ruau, Scientech Faik Guangzhou Economic & Technology Development District, Suangzhou, chin	a 510663



No. CANEC2116822401

Date: 16 Sep 2021

ATTACHMENTS

PFOA / PFOS Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 tt (86–20) 82155555 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
To real a road, or chean and or any and contained road noisy berelopment bisher, o	dangenou,onina 510003



No. CANEC2116822401

Date: 16 Sep 2021

Page 16 of 19

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a deviced that information from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlaw do diffenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gss.com

198 Kezhu Road, Solentech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 www.sgsgroup.com.cn

to hour a hour and a solution of the solution	oddingenou,onind 010000
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 sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

Page 17 of 19

ATTACHMENTS

Red phosphorus Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> District Ourseshour Ohine Ed Or t (86-20) 82155555 www.sgsgroup.com.cn

	010000
中国·广州·经济技术开发区科学城科珠路198号 邮编:	510663
190 Kezhu Koad, Scientech Park Guangzhou Economic & rechnology Development District, Suangzhou, China	510663

t (86–20) 82155555 sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2116822401

Date: 16 Sep 2021

ATTACHMENTS

TBBP-A Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doecheck@sgs.com</u> 198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 tt (86-20) 82155555 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 tt (86-20) 82155555

t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



No. CANEC2116822401

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Road,Scientech Park Guargzhou Economic & Technology Development District,Guargzhou,China 510663 t (86-20) 82155555 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

555555 www.sgsgroup.com.cn 555555 sgs.china@sgs.com



No. CANEC2120842410

Date: 18 Nov 2021

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 plated tin terminal

SGS Job No. :	CP21-059441 - SZ
Model No. :	12504
Client Ref. Info. :	Please see REMARK
Date of Sample Received :	09 Nov 2021
Testing Period :	09 Nov 2021 - 18 Nov 2021
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

Allie Chen

Allie Chen Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to are concerted parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To.check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gsg.com

188 Kezhu Road Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sas.china@sas.com

t (86–20) 82155555 sgs.china@sgs.com Member of the SGS Group (SGS SA)



No. CANEC2120842410

Page 2 of 8

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-208424.004	Silvery plated metal

Remarks :

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

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	45
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.
- (2) 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

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

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

Elementary Analysis



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



Test Repor	t No	D. CANEC2120842410		Date: 18	Nov 2021	Page 3 of 8
Test Method :	SGS In-house method was performed by ICP-	(GZTC CHEM-TOP-00 -OES.	9-01, with	n referenc	e to EPA 3050B	:1996), analysis
<u>Test Item(s)</u> Beryllium (Be)			<u>Unit</u> ng/kg	MDL 5	<u>004</u> ND	

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

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

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes :

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
(2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

198 Kazhu Rad, Scientisch Park Guangzhou Economic & Technology Development Distrid, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2120842410

Date: 18 Nov 2021

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、11271、11500、11501、11502、11503、11504、11505、11506、 11508、11800、11801、12001、12002、12003、12004、12005、12006、12007、12008、 12009、12010、12011、12012、12013、12014、12015、12016、12017、12018、12019、 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、15101、15080、17921、20001、20501、20502、 20503、20602、20800、20803、21001、21251、21501、21502、21611、21811、21813、 21814、21816、21817、21818、21819、22001、22002、22501、23501、32001、33001、 33002、34201、34202、35401、34502、35081、35082、36201、36202、40001、40301、 40302、40303、40305、40306、40501、40502、40503、40504、40505、40506、40507、 40508、40513、40536、40559、40560、40561、40562、40583、40584、40586、41001、 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50004、50005、50006、50007、50501、50601、50602、50801、50802、51001、51050、 51271、51272、51274、51275、51276、51277、51278、51279、51280、51351、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、61014、61100、61270、62001、 62291、62771、62772、63100、64001、64100、65000、65001、65003、65004、67500、 69500、70001、70002、70003、70004、70500、70501、70600、70801、70802、70901、 70910、71008、71101、72001、72007、72008、72010、72101、80001、80202、8060、 80601、80751、80802、81272、81290、81290、86502、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、 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、M0054-SUS-PA、C11-060-06-AG160、 6000M0F-0S-4、 6000M0F-0S-4-B、BS0128-NY-BK、BS0127-NY-BK、HF96-2XXX-XB01、 UFB11、UFB12、UFB13、 LJ SERIES



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

t (86-20) 82155555 www.sgsgroup.com.cn

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 邮编: 510663 中国·广州·经济技术开发区科学城科珠路198号

t (86-20) 82155555 sas.china@sas.com



No. CANEC2120842410

ATTACHMENTS

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unavoid and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development D	District,Guangzhou,China 510663
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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2120842410

Date: 18 Nov 2021

Page 6 of 8

ATTACHMENTS

PFOA / PFOS Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 tt (86–20) 82155555 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
Too Nozi a Noda, ociona an odangzi oa conomic a roomology perciopmon pisno, o	dangzilou,onina 510005



No. CANEC2120842410

Date: 18 Nov 2021

Page 7 of 8

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a deviced that information from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlaw do diffenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gss.com

198 Kezhu Road, Solentech Teak Congescom 198 Kezhu Road, Solentech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 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
Too Nozi u Nodu, ou on com an ou angzi ou contonno u roomology porophient pistor, o	dangenou,onina 510005

t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



No. CANEC2120842410

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 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 sgs.china@sgs.com

www.sgsgroup.com.cn

t (86-20) 82155555

弘源碩電子材料有限公司

HungYuanShuo Electronic Accessories CO., LTD

产品规格承认书

版本: A/1

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

供應商確認(弘源碩電子材料有限公司)

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

客戶確認

客户批准/日期	

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

- 邮 编: 518104
- 电 话: 0755-29308589
- 传 真: 0755-29308085
- 网 址: www.lyc-hys.com

1 主题内容与适用范围

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

2 引用标准

Standard for Extruded Electrical Tubing UL 224.

3 术语

3.1 热收缩材料

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

3. 2 热收缩套管

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

3. 3 绿色 RSFR 无卤阻燃热收缩材料

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

4 技术要求

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

	性能	2 2	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℃×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
	击势	穿强度/KV/mm	GB/T1408	≥15
	体积	【电阻率/Ω•cm	GB/T1410	$\geqslant 1 \times 10^{14}$
化学性能		铜安定性	UL224; 158℃×168hr	PASS
	抗腐蚀性		UL224; 158℃×168hr	PASS
		阻燃性	UL224	VW-1

表1 无卤阻燃型热收缩套管的性能特性

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	己寸 (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)
Ф0.6СВ	0.90 ± 0.2	0.13 ± 0.05	≪0.40	0.20 ± 0.10	200	400	0.4~0.7
Ф0.8СВ	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
Ф1.5CB	1.90±0.2	0.13±0.05	≤0.85	0.20 ± 0.10	200	400	0.9~1.4
Ф2.0СВ	2.40 \pm 0.2	0.13 ± 0.05	≤1.00	0.22 ± 0.10	200	400	1.1~1.8
Ф2.5CB	2.90 ± 0.2	0.13 ± 0.05	≤1.30	0.25 ± 0.10	200	400	1.4~2.3
ФЗ. ОСВ	3.40 \pm 0.2	0.13 ± 0.05	≤1.50	0.28 ± 0.10	200	400	1.6~2.7
ФЗ. 5СВ	3.90 ± 0.2	0.13 ± 0.05	≤1.80	0.28 ± 0.10	200	400	1.9~3.2
Ф4.0СВ	4.40 ± 0.2	0.15 ± 0.05	≤2.00	0.30 ± 0.10	200	400	2.1~3.6
Φ4.5CB	4.90 ± 0.2	0.15 ± 0.05	≤2.30	0.30 ± 0.10	100	200	2.4~4.0
Ф5.0СВ	5.50 \pm 0.2	0.15 ± 0.05	≤2.5	0.32 ± 0.10	100	200	2.6~4.5
Ф6.0СВ	6.50 ± 0.2	0.15 ± 0.05	≪3.0	0.32 ± 0.10	100	200	3.1~5.4
Ф7СВ	7.50 ± 0.3	0.15 ± 0.05	≪3.5	0.32 ± 0.10	200	200	3.7~6.3
Ф 8CВ	8.50 ± 0.3	0.15 ± 0.05	≪4.0	0.32 ± 0.10	200	200	4.2~7.2
Ф 9СВ	9.50 \pm 0.3	0.15 ± 0.05	≪4.5	0.35 ± 0.10	200	200	4.7~8.0
Ф10СВ	10.5 ± 0.3	0.15 ± 0.05	≤5.0	0.35 ± 0.10	200	200	5.2~9.0

弘源碩電子材料有限公司

Ф11CВ	11.5 ± 0.3	0.18 ± 0.05	≤5.5	0.40 ± 0.10	200	200	5.7~10.0
Φ12CB	12.5 ± 0.3	0.20 ± 0.05	≤6.0	0.40 ± 0.10	200	200	6.2~11.0
Ф13CВ	13.5 ± 0.3	0.20 ± 0.05	≤6.5	0.40 ± 0.10	200	200	6.7~12.0
Φ14CB	14.5 \pm 0.3	0.20 ± 0.05	≤7.0	0.40 ± 0.10	200	200	7.3~13.0
Ф15CB	15.5 ± 0.4	0.20 ± 0.05	≤7.5	0.40 ± 0.10	200	200	7.8~14.0
Ф16CB	16.5 \pm 0.4	0.22 ± 0.05	≪8.0	0.40 ± 0.10	200	200	8.3~15.8
Ф17CВ	17.5 ± 0.4	0.22 ± 0.05	≤8.5	0.40 ± 0.10	200	200	8.8~16.0
Ф 18CB	18.5 ± 0.4	0.22 ± 0.05	≪9.0	0.42 ± 0.10	200	200	9.3~17.0
Ф 20СВ	20.5 \pm 0.5	0.25 ± 0.05	≤10.0	0.45 ± 0.10	200	200	10.5~19.0
Ф 22CB	22.5 \pm 0.5	0.25 ± 0.05	≤11.0	0.45 ± 0.10	200	200	11.5~20.5
Ф 25CB	25.5 \pm 0.5	0.25 ± 0.05	≤12.5	0.45 ± 0.10	100	100	13.0~24.0

E203950 **CAL W** WOER RSFR(CB) TUBE 125° 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 (mm)	收缩前尺	寸 (mm)	收缩后	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
	内径	壁厚	最大内径	壁厚	米/盘	米/盘	(mm)
Ф0.6	0.9 ± 0.2	0.18 ± 0.05	≤0.40	0.33 ± 0.10	200	400	0.4~0.7
Φ0.8	1.1 ± 0.2	0.18 ± 0.05	≤0.50	0.33 ± 0.10	200	400	0.6~0.8
Φ1.0	1.5 ± 0.2	0.20 ± 0.05	≤0.65	0.36 ± 0.10	200	400	0.75~0.9
Φ1.5	2.0 ± 0.2	0.20 ± 0.05	≤0.85	0.36 ± 0.10	200	400	0.95~1.4
Φ2.0	2.5 \pm 0.2	0.20 ± 0.05	≤1.00	0.45 ± 0.10	200	400	1.1~1.8
Φ2.5	3.0 ± 0.2	0.20 ± 0.05	≤1.30	0.45 ± 0.10	200	400	1.35~2.3
Φ3.0	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
Φ4.0	4.5 ± 0.2	0.25 ± 0.05	≤2.00	0.45 ± 0.10	200	400	2.1~3.6
Φ4.5	5.0 ± 0.2	0.28 ± 0.05	≤2.30	0.56 ± 0.10	100	200	2.35~4.0
Φ5.0	5.5 \pm 0.2	0.28 ± 0.05	≤2.50	0.56 ± 0.10	100	200	2.6~4.5
Φ6.0	6.5 ± 0.2	0.28 ± 0.05	≤3.00	0.56 ± 0.10	100	200	3.1~5.4
Φ7.0	7.5 ± 0.3	0.30 ± 0.05	≤3.50	0.56 ± 0.10	100	100	3.7~6.3
Φ8.0	8.5 ± 0.3	0.30 ± 0.08	≤4.00	0.56 ± 0.10	100	100	4.2~7.2
Φ9.0	9.5 \pm 0.3	0.30 ± 0.08	≤4.50	0.56 ± 0.10	100	100	4.7~8.0
Φ10	10.5 ± 0.3	0.30 ± 0.08	≤5.00	0.56 ± 0.10	100	100	5.2~9.0
Φ11	11.5 ± 0.3	0.30 ± 0.08	≤5.50	0.56 ± 0.10	100	100	5.7~10
Φ12	12.5 ± 0.3	0.30 ± 0.08	≤6.00	0.56 ± 0.10	100	100	6.2~11
Φ13	13.5 ± 0.3	0.35 ± 0.08	≤6.50	0.56 ± 0.10	100	100	6.7~12
Φ14	14.5 ± 0.3	0.35 ± 0.10	≤7.00	0.70 ± 0.10	100	100	7.3~13
Φ15	15.5 ± 0.4	0.35 ± 0.10	≤7.50	0.70 ± 0.10	100	100	7.8~14

弘源碩電子材料有限公司

规格 (mm)	收缩前尺寸 (mm)		收缩后尺寸(mm)		旧包装	新包装	适用范围 (mm)
Φ16	16.5 \pm 0.4	0.35 ± 0.10	≤8.00	0.70 ± 0.10	100	100	8.3~15
Φ17	17.5 ± 0.4	0.35 ± 0.10	≪8.50	0.70 ± 0.10	100	100	8.8~16
Φ18	19.0 ± 0.5	0.35 ± 0.10	≪9.00	0.70 ± 0.10	100	100	9.3~17
Φ20	22.0 ± 0.5	0.40 ± 0.10	≤10.00	0.83 ± 0.10	100	100	10.4~19
Φ22	24.0 \pm 0.5	0.40 ± 0.12	≤11.00	0.83 ± 0.15	100	100	11.4~21
Φ25	26.0 ± 0.5	0.45 ± 0.12	≤12.50	0.90 ± 0.15	50	50	12.8~24
Φ28	29.0 \pm 0.5	0.45 ± 0.12	≤14.00	0.90 ± 0.15	50	50	14.4~29
Φ30	31.5 ± 1.0	0.45 ± 0.12	≤15.00	1.00 ± 0.15	50	50	16~29
Φ35	36.5 ± 1.0	0.45 ± 0.12	≤17.50	1.00 ± 0.15	50	50	$18 \sim 34$
Φ40	41.5 ± 1.0	0.50 ± 0.12	≤20.00	1.00 ± 0.15	50	50	21~39
Φ45	46.5 ± 1.0	0.50 ± 0.15	≤22.50	1.00 ± 0.20	25	25	23.5~44
Φ50	≥50	0.50 ± 0.15	≤25.00	1.10 ± 0.20	25	25	26~49

E203950 **сЪЪЪ**иѕ 𝔅 WOER RSFR−Н ТИВЕ 125℃ VW−1 Н (ф9)

注: Ф30 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

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

表4 无卤阻燃型热收缩套管的环保特性

弘源碩電子材料有限公司

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

	使用目的	含量	供应商	CAS. NO.		
中文	英文	分子式				
聚烯烃	Polyolefin	(CH_2CH_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) IS09001 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

第6页共6页

E203950

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

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

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

x-yz - x represents tubing expanded ID, yz represents any alpha and/or numeric combination - for internal client code.

- Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.

@ - VW-1 rated for internal diameter sizes 6.50 - 15.00 mm only.

\$ - VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container. Last Updated on 2008-04-30

Questions?

Print this page

Notice of Disclaimer

Page Top

Copyright ?2010 Underwriters Laboratories Inc.®

100

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=YDP... 2010/12/6

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2010 Underwriters Laboratories Inc.®"

An independent organization working for a safer world with integrity, precision and knowledge.




No. CANEC2107441701

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. :	CP21-022586 - SZ
Model No. :	I-TPE-01
Client Ref. Info. :	I-TPE-01;I-PE-01;I-TPR-01;I-PPE-01;I-PP-01;I-TPU-01;I-RU-01.
Date of Sample Received :	06 May 2021
Testing Period :	06 May 2021 - 11 May 2021
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

Jessieli

Jessie Li Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Condi

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sasaroup.com.cn

t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2107441701

Page 2 of 6

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-074417.001	White ink

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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<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 (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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Condi

or email: CN.Doccheck@sgs.com t (86-20) 82155555 www.sasaroup.com.cn

198 Keznu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China	510663
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 sgs.china@sgs.com



Test Report	No. CANEC21074417	01	Date: 1	11 May 2021	Page 3 of 6
<u>Test Item(s)</u>	<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)	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.

(2) 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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, report & certificate, please contact us at telephone: (86-755) 8307 1443,

t (86-20) 82155555 www.sasaroup.com.cn

sgs.china@sgs.com



No. CANEC2107441701

Date: 11 May 2021

Page 4 of 6

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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to eso not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

or email: CN_Doccheck@sgs.com 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District Guangzhou, China 51,0663 t (86–20) 82155555 www.sgsgroup.com

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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



No. CANEC2107441701

Date: 11 May 2021

Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart





198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2107441701

Page 6 of 6

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN Doccheck@ses.com

or email: <u>CN. Doccheck@sgs.com</u> 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 www.sgsgroup.com.cn

rso Addu road, Scened Far Guargarou Economic & reamongy Development Distric, Guargarou, Smart S 10663 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 sgs.china@sgs.com



Test Report	
(SVHC)	

Page 1 of 19

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 : BLACK H TUBE					
SGS Job No. : CP21-013177 - SZ					
Date of Sample Received : 24 Mar 2021					
Testing Period :	24 Mar 2021 - 30 Mar 2021				
Test Requested : As requested by client, SVHC screening is performed according to: (i) Two hundred and eleven (211) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 19, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.		lidate List of on published by			
Test Results :	Please refer to next page(s).				
Summary :	Summary :				
According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.					

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

Jessieli

Jessie Li Approved Signatory





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@esg.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn

t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2104393801

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-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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the solutient or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 se contact us at telephone: (86-755) 8307 1443, t (86-20) 82155555 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2104393801

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 \geq 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	SGS	Description
No.	Sample ID	
SN1	CAN21-043938.001	Black tube

Test Method :

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.gg.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gg.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.gg.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

Attention: To check the autoenticity of testing inspection report & certificate, please contact us at telephone: (bo-/so)osu(14 or email: CN.Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn



No. CANEC2104393801

Date: 30 Mar 2021

Page 4 of 19

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN Doccheck@ses.com

remail: CN.Doccheck@sgs.com 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 tr (86–20) 82155555 www.sgsgroup.com.cn

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 sgs.china@sgs.com



Test Report (SVHC)

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 \geq 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/Managementof-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively).

except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

6. § 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).



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, report & certificate, please contact us at telephone: (86-755) 8307 1443,

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sasaroup.com.cn sgs.china@sgs.com



Date: 30 Mar 2021

Page 6 of 19

Test Report (SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
Ι	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
Ι	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
Ι	4	Anthracene	120-12-7	0.050
Ι	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
Ι	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
Ι	8	Cobalt dichloride*	7646-79-9	0.005
Ι	9	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	10	Diarsenic trioxide*	1327-53-3	0.005
Ι	11	Dibutyl phthalate (DBP)	84-74-2	0.050
Ι	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	-	0.050
Ι	13	Lead hydrogen arsenate*	7784-40-9	0.005
Ι	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
Ι	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



198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



(SVHC)

Test Report

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
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
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
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
	29	Ammonium dichromate*	7789-09-5	0.005
	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
	32	Potassium chromate*	7789-00-6	0.005
	33	Potassium dichromate*	7778-50-9	0.005
	34	Sodium chromate*	7775-11-3	0.005
	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
	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*	-	0.005



198 Kezhu Read,Scientech Park Guargzhou Economic & Technology Development District,Guargzhou,China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



(SVHC)

Appendix

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 *	-	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

No. CANEC2104393801



www.sgsgroup.com.cn

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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

sgs.china@sgs.com t (86-20) 82155555

Member of the SGS Group (SGS SA)

Page 8 of 19

Date: 30 Mar 2021



Page 9 of 19

Test Report (SVHC)

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*	-	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



or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 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 sgs.china@sgs.com Member of the SGS Group (SGS SA)



(SVHC)

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

No. CANEC2104393801



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN. Doccheck@sas.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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

www.sgsgroup.com.cn sgs.china@sgs.com t (86-20) 82155555

Member of the SGS Group (SGS SA)

Date: 30 Mar 2021

Page 10 of 19



No. CANEC2104393801

(SVHC)

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	-	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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN. Doccheck@sas.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



(SVHC)

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

No. CANEC2104393801



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions. Any holder of this document, subject to Terms and Conditions of Labity, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CNN Doccheck@sea.com

of ennan: CHABOBCENECK@53.COM 188 KabuRadSkalenkoPark (daurghou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn

t (86–20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Page 12 of 19

Date: 30 Mar 2021



(SVHC)

Test Report

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
х	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
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN. Doccheck@sas.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn sgs.china@sgs.com t (86-20) 82155555



(SVHC)

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 $\ge 0.3\%$ of dihexyl phthalate	-	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	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



or email: <u>CN_Doccheck@sgs.com</u> 198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

No. CANEC2104393801

Date: 30 Mar 2021

Page 14 of 19



Date: 30 Mar 2021

Page 15 of 19

(SVHC)

Test Report

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	-	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	0.050
XVIII	177	Cadmium nitrate*	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	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
ХІХ	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions. Any holder of this document, subject to Terms and Conditions of Labity, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CNN Doccheck@sea.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn

sgs.china@sgs.com t (86-20) 82155555



(SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	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
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050

No. CANEC2104393801

Date: 30 Mar 2021

Page 16 of 19



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN. Doccheck@sas.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn sgs.china@sgs.com t (86-20) 82155555



(SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050

No. CANEC2104393801



198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn

Page 17 of 19

Date: 30 Mar 2021

sgs.china@sgs.com t (86-20) 82155555 Member of the SGS Group (SGS SA)



No. CANEC2104393801

Date: 30 Mar 2021

Page 18 of 19

ATTACHMENTS

SVHC Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) lested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or amali: CN Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or amali: CN Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or amali: CN Doccheck the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or amality is contact and the intervention of the contact and find of the conta

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86-20) 82155555 sgs.china@sgs.com



No. CANEC2104393801

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limitato Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN Doccheck@gss.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 t (86-20) 82155555 sgs.china@sgs.com





No. CANEC2116449507

Date: 10 Sep 2021

Page 1 of 7

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREET, PINGSHAN DISTRICT, SHENZHEN CHINA

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

SGS Job No. :	CP21-047799 - SZ
Date of Sample Received :	02 Sep 2021
Testing Period :	02 Sep 2021 - 09 Sep 2021
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



Zuguan

Zm guan Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document to exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gsg.com

188 Kezhu Road Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com





No. CANEC2116449507

Date: 10 Sep 2021

Page 2 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-164495.001	Black tube

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.

<u>Test Item(s)</u>	<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 (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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@ssac.eom

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	sgs.china@sgs.com
198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District	Guangzhou, China 510663	t (86–20) 82155555	www.sgsgroup.com.cn
or email: CN.Doccheck@sgs.com			,
Attention. To check the authenticity of testing misper			





Test Report	No. CANEC21164495	07	Date: 1	10 Sep 2021	Page 3 of 7
<u>Test Item(s)</u>	<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)	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.

(2) 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

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

<u>Unit</u>	<u>MDL</u>	<u>001</u>
mg/kg	50	167
mg/kg	50	ND
mg/kg	50	ND
mg/kg	50	ND
	mg/kg mg/kg mg/kg	mg/kg 50 mg/kg 50 mg/kg 50



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. Be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unauth and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

100 1 0 Tesh alogy Davelonment District Guenarhou China E40000 t (86-20) 82155555 www.sgsgroup.com.cn

中国、广州、经济技术工作区到兴地和政100日 机炉、540000	or real a road, ouch contraint and ouch gained a contraining a real monogy bereaphient bismo, ouch gaingailou, on ma	局: 510663
中国•7州•经济仅不开及区科子城科环路1905 即编:510663	中国・广州・经济技术开发区科学城科珠路198号 邮编:	510663

sas.china@sas.com





No. CANEC2116449507

Date: 10 Sep 2021

Page 4 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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> 198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 tt (86-20) 82155555 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 tt (86-20) 82155555

55 www.sgsgroup.com.cn 55 sgs.china@sgs.com





No. CANEC2116449507

Date: 10 Sep 2021

Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

or email: <u>CN.Doccheck@sgs.com</u> District Oursembary Ohine Ed.O t (86-20) 82155555 www.sgsgroup.com.cn

	190 Kezhu Road, Scientech Park Guangzhou Economic & rechnology Development District,	Suanyznou, china 510663
中国・)州・空阶技术开友区科学项科环路1985 邮编:510663	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 sgs.china@sgs.com Member of the SGS Group (SGS SA)





No. CANEC2116449507

Date: 10 Sep 2021

Page 6 of 7

ATTACHMENTS

Halogen Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

ck@sgs.com mail: <u>CN.Docch</u> 100 1 ology Dougle ant District Guanarhou China E40000 t (86-20) 82155555 www.sgsgroup.com.cn

130 Nezhu Noau, odentedi Faik Odangzhoù Economic & rechnology Development District, Odang	2100,011118 510005
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 sgs.china@sgs.com





No. CANEC2116449507

Date: 10 Sep 2021

Page 7 of 7

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document to unavoid and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzho	u,China 510663
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 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

		ISO9001:2015
客 戶	飞伟科技有限公司	
品 名 DESCRIPTION	3.5Ø PHONE JACK	
客戶料號 CUSTOMER P/N		制作者 THE PRODUCER
應用機種 APPLICATION		
旭全料號 S.C. P/N	SCJ311M1NXS1B00G (For RoHSCompliant)	核准 APPROVAL
業務擔當者 SALES IN CHARGE	姚怡如	
提出日期 ISSUE DATE	Dec/03/2020	

旭全精密工業股份有限公司 S. C. PRECISION INDUSTRIAL CO., LTD.

總公司:台北縣永和市保福路二段38號 Taipei Office:No. 38, Sec. 2, Paofure Rd., Yungho City, Taipei Hsien, Taiwan. Tel: +886-2-29227371(Rep.) Fax: +886-2-29252782, 29270132 E-mail:cthuang@scpre.com.tw Website://www.scpre.com.tw

旭全精密工業 (深圳) 有限公司

大陸廠:廣東省深圳市寶安區觀瀾鎭新田村 麒麟城工業區觀平段154號 China Factory: No. 154, Guan-Pin Duan, Chi-Lin Cheng Industrial District, Hsin Tien Tsun, Kwan-Lan Chen, Pao-An District, Shen Zhen, Kwang-Tung, China **Tel:+86-755-28056140(Rep.) Fax:+86-755-28056499** 昆山辦事處:江蘇省昆山市長江北路陽光世紀花園 17棟二單元203室 Kunshan Office: Rm. 203, 2 Unit, 17 Bldg., Sunshine World Garden. Changjiang North Rd., Kunshan City, JiangSu Province, China **Tel:+86-512-57669962**



旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司

S.C. PRECISIONINDUSTRIAL CO., LTD. Website://www.scpre.com.tw Email:cthuang@scpre.com.tw 總公司: 23446軒北市永和語保稿路二段38號 23446 NO.38 Sec.2, Paolure Rd, Yungho Dist, New Taipei City, Taiwan R.O. C Tel:+886-2-29227371 (Rep.) Fax:+886-2-29227371 (Rep.) Fax:+886-2-2925782, +886-2-29270132 大陸点: 深圳市截莘區戰國場新时村製千路154號 NO.154, GuanPing Road, Xin Tian Village, GuanLan Town, LongHua District, ShenZhen City, GuangDong Province, China Tel:+86-755-28056140(Rep.) Fax:+86-755-28056499

SPECIFICATIONS

仕	様	書
ĴΤ.	7 \$7	首

S. C. MODEL NO.: SCJ311M1NXS1B00G (For ROHS Compliant)	DATE	Dec/03/2020
DESCRIPTION: 3.5Ø PHONE JACK	PAGE	1/6

1. GENERAL 概要

1.1 Scope 適用範囲

The specification covers the requirements for 3.5Ø PHONE JACKS intended for audio systems and similar electronic apparatuses.

該規範涵蓋了用於音頻系統 3.50 插孔要求,以及類似的電子設備。

1.2 Compliance with specification 仕様承諾事項

The specification shall be read in conjunction with the applicable part drawing and the individual specification, if any. Whenever this specification conflicts with the applicable part drawing and/or the individual specification, the latter shall govern.

該規格根據產品設計和個別的規格來參考,如果有不遵守規格專案,將產品圖有記載的事項優先於本規格。

1.3 Mating plug 適合插頭

The mate plug shall be as shown in Appendix Fig.1 or equivalent. 適合插頭如下附件 1 或是相同相等的。

1.4 Gauge plug 標準插頭

The gauge plug shall be as shown in Appendix Fig. 1 or equivalent. 標準插頭如下附件 1 或是相同相等的。

2. CONTRUCTION 構造

2.1 Design and Contruction 外觀與結構

The 3.5Ø phone jack shall be the design, contruction and dimensions as shown in the applicable part drawing.

3.5 Ø 插頭應爲適用於產品圖中所示的設計、結構和尺寸。

2.2 Components and Materials 使用部件和材料

Components and materials shall be used as specified in the applicable part drawing. 使用的零件和材料在產品圖上表示。



旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司

S.C. PRECISIONINDUSTRIAL CO., LTD. Website://www.scpre.com.tw Email:cthuang@scpre.com.tw 總公司: 23446新北市永和區保積路二段38號 23446 NO.38.Sec.2.Paofure Rd.Yungho Dist. New Taipei City, Taiwan R.O. C Tel:+8866-2-29227371 (Rep.) Fax:+8866-2-29227371 (Rep.) Fax:+8866-2-2925782, +886-2-29270132 大陸麻: 深利市最辛居戰調構新时村製千路154號 NO.154.GuanPing Roadt, Xin Tian Village, GuanLan Town, LongHua District, ShenZhen City, GuangDong Province, China Tel:+86-755-28056140(Rep.) Fax:+88-755-28056499

SPECIFICATIONS

仕様書

S.C. MODEL NO.: SCJ311M1NXS1B00G (For ROHS Compliant)	DATE	Dec/03/2020
DESCRIPTION: 3.5Ø PHONE JACK	PAGE	2/6
2 Mashaniaal 拨标的优化会		

3. Mechanical 機械的性能

3.1 Insertion and Extraction force 插力和拔力

Insertion and extraction force of the jack shall be measured with a load cell or equivalent, the gauge plug shall be inserted into the jack and extracted from the jack slowly. Insertion and extraction force shall be a value as specified in items (1) and (2) below.

以插拔力機測量插力和拔力。產品水準或垂直插入、拔出。插力和拔力如下表示。

Item	Condition	Result/Value
Insertion force	Before test or initial 試驗前(試驗初期)	0.4Kg to 2.0Kg
插力	After life test 寿命試驗後	0.3Kg to 2.0Kg
	After humidity 耐湿試驗後	0.3Kg to 2.0Kg
After heat test 耐熱試驗後		0.3Kg to 2.0Kg
	After cold test 耐寒試驗後	0.3Kg to 2.0Kg
	After resistance to solding heat test 焊接測試後	0.3Kg to 2.0Kg
Extraction force	Before test or initial 試驗前(試驗初期)	0.4Kg to 2.0Kg
拔力	After life test 寿命試驗後	0.3Kg to 2.0Kg
	After humidity 耐湿試驗後	0.3Kg to 2.0Kg
	After heat test 耐熱試驗後	0.3Kg to 2.0Kg
	After cold test 耐寒試驗後	0.3Kg to 2.0Kg
	After resistance to soldering heat test 焊接測試後	0.3Kg to 2.0Kg

Terminal strength 端子強度

A force of 500 grams shall be applied at a tip of the terminal in every direction of vertical and horizontal to the axis of the terminal for a period of 10 seconds. The jack shall show no evidence of mechancial damage or breakdown, and no loosing the terminal except bending the terminal, causing electrical failure or damage to the extent of practical.

在産品的端子上以 500g 的負荷力,時間 10 秒的情況下,產品不能有破裂、端子不能有脫落, 但端子彎曲是可以接受的。



旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司

S.C. PRECISIONINDUSTRIAL CO., LTD. Website://www.scpre.com.tw Email:cthuang@scpre.com.tw 總公司: 23446軒北市永和్保積路二段38號 23446 NO.38,Sec.2,Paofure Rd,Yungho Dist. New Taipei City,Taiwan R.O.C Tel:+886=2=29227371 (Rep.) Fax:+886=2=29227371 (Rep.) Fax:+886=2=2925782, +886=2=29270132 支陸底: 承从市瓮羊器 配调最新回村 现于路154號 NO.154,GuanPing Road.Xin Tian Village, GuanLan Town,LongHua District. ShenZhen City,GuangDong Province,China Tel:+86=755=28056140(Rep.) Fax:+86=755=28056140(Rep.)

 $\leq 30 \mathrm{m}\Omega$

 $\leq 60 \mathrm{m}\Omega$

 $\leq 30 \mathrm{m}\Omega$

 \leq 30m Ω

 $\leq 30 \mathrm{m}\Omega$

 $\leq 30 \mathrm{m}\Omega$

SPECIFICATIONS

仕様 書	E -
------	-----

C. MODEL NO.: SCJ3	D11M1NXS1B00G (For ROHS Compliant)	ATE	Dec/03/2020
ESCRIPTION:3.5Ø PH	IONE JACK PA	AGE	3/6
ELECTRICAL 죕	。 氧化能		
4.1 Insulation resist	ance:絕緣強度		
$100 \mathrm{M}\Omega(\mathrm{min})$ at 50	OVDC		
Item	Condition	R	esult /Value
Insulation resistance	500VDC applied between mutually insulated terminals or		
絶縁阻抗	metal parts.		
	於相互絕緣端子間或金屬零件間加以 DC500V 直流電測	旧得	
	之絕緣強度需滿足以下條件。		
	(1) Before test or initial 試驗前(試驗初期)	\geq	100MΩ
	(2) After humidity test 耐湿試驗後	\geq	50MΩ
	(3) After heat test 耐熱試驗後	\geq	100MΩ
	(4) After cold test 耐寒試驗後	\geq	100MΩ
	(5) After resistance to soldering heat test 焊接測試後	\geq	100MΩ
Contact resistance	Contact resistance between terminals should satisfy (1)-(6))	
接觸組抗	when measured by using 1kHz, AC 100mA or less.		
	用 100 毫安 1000 赫茲交流電加於端子間所測得的接触	蜀組	
	抗需滿足下列條件。		

(1) Before test or initial 試驗前(試驗初期)

(6) After resistance to soldering heat test 焊接測試後

(2) After life test 寿命試驗後

(4) After heat test 耐熱試驗後

(5) After cold test 耐寒試驗後

(3) After humidity test 耐湿試驗後


旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司

S.C. PRECISIONINDUSTRIAL CO., LTD. Website://www.scpre.com.tw Email:cthuang@scpre.com.tw

SPECIFICATIONS

總公司: 23446新北市永和區保積路二段38號 23446 NO. 38, Sec. 2, Paofure Rd, Yungho Dist, New Taipei City, Taiwan R. O. C Tol: +886-2-29227371 (Rep.) Fax:+886-2-29227371 (Rep.) Fax:+886-2-2925782, +886-2-29270132 大陸庵: 深州市最幸區配調鏡所如村製千路154號 NO. 154, GuanPing Road, Xin Tian Village, GuanLan Town, LongHua District, ShenZhen City, GuangDong Province, China Tel: +86-755-28056140(Rep.) Fax:+86-755-28056499

仕様書

S.C. MODEL NO.: SCJ311M1NXS1B00G (For ROHS Compliant)	DATE	Dec/03/2020
DESCRIPTION: 3.5Ø PHONE JACK	PAGE	4/6

5. Physical 物理的性能

5.1 Resistance to soldering heat 銲錫耐熱試驗

The jack shall be tested under condition as specified in items (1) or (2) below, shall not occur remarkable deterioration of the part contracted and electrical damage or failure to the extent of practical use, shall comply with paragraphs 3.1 and 4.1. \circ

依照下列(1)和(2)的試驗方式執行後,插座結構不能惡化,且電氣性能須滿足3.1和4.1項 基準而不能受損。

(1) Condition of the jack for printed circuit board: The jack shall be mounted or plant to 1.6 millimeters thickness copper coil clad phenolic laminated board with a suitable hole layout to meet terminal arrangement of the jack tested, the area to be soldered of the terminal shall immerced into molten solder at a temperature of 165°±5°C for 5±1 seconds.
PCB 板用: 按指定厚度 1.6mm 銅箔線路板, 將插座插入板上 然後端子須能通過被浸入溫度為 165°℃±5℃的錫爐內 5 秒±1 秒時間。

(2) Condition of the jack for hand soldering: The terminal of jack tested shall be heated to 1.5 millmeters over from the wiring hole or slit of the terminal by a soldering iron to have a capacity of 60 watts consumption at a temperature controlled of 350℃±10℃ for a period of 3±0.5 seconds. 電線配線用: 端子前約 2mm 長或有孔部位, 然後沾浸過焊錫以 350℃±10℃, 60W 電烙鐵 3 秒±0.5 秒焊接時間。

5.2 Solderability 焊接特性試驗

The terminal of jack tested shall be dipped into soldering flux of period of 5 to 10 seconds to preflux and shall be immerced into molten solder of or equivalent to 2±0.5 millmeters from a tip of the terminal for a dwell time of 3±0.5 seconds. At the conclusion of this test, the tested area shall be covered more than three quarters of immerced area with fresh solder. 插座的端子先以助焊液浸入 5 秒 到 10 秒,然後浸入銲錫槽內或同等以端子須浸入 2±0.5 mm 長, 3±0.5 秒鐘的時間來測試。



旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司 S.C. PRECISIONINDUSTRIAL CO., LTD.

Website://www.scpre.com.tw Email:cthuang@scpre.com.tw 地公司: 23446新北市永和區保積路二段38號 23446 NO.38.Sec.2.Paofure Rd.Yungho Dist. New Taipei City, Taiwan R.O. C Tel:+886-2-29227371 (Rep.) Fax:+886-2-29227371 (Rep.) Fax:+886-2-2925782, +886-2-29270132 大及県: 深州市最幸區配調鏡所可村製千路154號 NO.154,GuanPing Roadt,Xin Tian Village, GuanLan Town, LongHua District, ShenZhen City, GuangDong Province, China Tel:+86-755-28056140(Rep.) Fax:+88-755-28056499

SPECIFICATIONS

仕様書

S.C. MODEL NO.: SCJ311M1NXS1B00G (For ROHS Compliant)	DATE	Dec/03/2020
DESCRIPTION: 3.5Ø PHONE JACK	PAGE	5/6

6. Enviromental 環境

● Humidity test 耐濕試驗

The jack shall be exposed in a humidity chamber at a temperature of $40^{\circ}\pm 2^{\circ}$ C and at a relative humidity of 90 to 95% for a period of 96 hours, then shall be returned to a room ambient, dewdrops on the surface of jack shallbe blown off, thereafter, the jack shall be allowed to remain in a room ambient for 30 mintues to stabilize measurement. At the conclusion of this test, the jack shall comply with paragraphs 3.1,and 4.1.

在温度 40℃±2℃相對湿度 90~95%的恒温恒湿中放置 96 小時後取出, 擦除表面上的水滴, 再放置於長温常湿中 30 分鐘後測定, 滿足 3.1, 4.1 項要求。

6.1 Heat test 耐熱試驗

The jack shall be exposed in a heat chamber at a temperature of $70^{\circ}\pm 2^{\circ}$ C and at a relative humidity of below 50% for a period of 96 hours, thereafter, the jack shall be returned and allowed to remain in a room ambient for 30 minutes. At the conclusion of this test, the jack shall comply with paragraph 3.1, and 4.1.

在温度 70℃±2℃、湿度 50%以下的恒温槽中放置 96 小時後取出,再放置於常温常湿中 30 分 鐘後測定,滿足 3.1, 和 4.1 項要求。

6.2 Cold test 耐寒試驗

The jack shall be exposed in a cold chamber at a temperature of $-40\pm2^{\circ}$ C for a period of 96 hours, thereafter, the jack shall be returned and allowed to remain in a room ambient for 30 minutes, before measurement, the dwedro[ps on jack shall be blown off to stabilize measurement. At the conclusion of this test, the jack shall comply with paragraphs 3.1, and 4.1.

於温度-40℃±2℃的恒温槽中放置 96 小時後取出, 擦除表面上的水滴後, 再放置常温常湿中 30 分鐘後測定, 滿足 3.1, 和 4.1 項要求。



旭全精密工業股份有限公司 旭全精密工業(深圳)股份有限公司 S.C. PRECISIONINDUSTRIAL CO., LTD.

Website://www.scpre.com.tw Email:cthuang@scpre.com.tw 總公司: 23446新北市永和區保積路二段38號 23446 NO.38.Sec.2.Paofure Rd.Yungho Dist. New Taipei City.Taiwan R.O.C Tel:+8866-2-29227371 (Rep.) Fax:+8866-2-29227371 (Rep.) Fax:+8866-2-2925782: +8866-2-29270132 大陸県: 深局市最差區配減積所如材數千路154號 NO.154.GuanPing Roadt.Xin Tian Village. GuanLan Town.LongHua District. ShenZhen City.GuangDong Province,China Tel:+866-755-28056140(Rep.) Fax:+886-755-28056499

SPECIFICATIONS

仕札	義 書
----	-----

S.C. MODEL NO.: SCJ311M1NXS1B00G (For ROHS Compliant)	DATE	Dec/03/2020
DESCRIPTION: 3.5Ø PHONE JACK	PAGE	6/6

7. Endurance 耐久性

7.1 Life test 寿命試驗

The life test shall consist of 5,000 cycles of insertion and extraction with the mate plug or gauge plug at a rate of 20 to 30 cycles per minute under no load, At the conclusion of this test, the jack shall comply with 3, 3.1, 4, and 4.1.

於無負載状態以適合的或制式的插頭,以每分鐘 20~30 回頻度,作 5000 回的插入抜出測試。 此項測試結果須滿足 3, 3.1, 4, 4.1 項要求。

7.2 Measuring condition 測量條件

Unless otherwise specified herein, all measurements and tests shall be made at a temperature of 5° to 35° C and a relative humidity of 40 to 85%.

除非有其他特別要求規定,所有的測試條件皆以温度 5~35℃,相對湿度 40~85%為基準。



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

S. C. PRECISION INDUSTRIAL CO., LTD.

\$\$\$~



"品描述		A CALL AND A CALL	and the second second of	× 塑 亚 衣
1造商	宝理塑料(中国)有限	公司		A AND
/料标示	>POM Copolymer<本色			
L档案号	E45034		ŀ	E
材料形状 □工方式	颗粒状 注射成型			THE SIL
加重性能	江村成堂	则试标准	「大人」で、「「「人」」	Contraction of the second
上重 及水率	(23°C, 24 hr)	ISO 1183 ISO 62	1.41 0.5	g/cm³ %
UTC	(25 C, 24 III)	测试标准	·····································	No. Contraction of the second
4氏硬度	<u> </u>	ISO 2039-2	80	M(Scale)
2伸强度	23°C	ISO 527-2	62	MPa
所裂伸长半 8.曲器度	23°C 23°C	ISO 527-2 ISO 178	35 87	% MPa
腎曲强度 腎曲模量	23°C	ISO 178 ISO 178	2500	MPa
新支梁缺口冲击强度	23°C	ISO 178 ISO 179/1eA	6	kJ/m ²
Alter	条件	测试标准	参 对闭	· · · · · · · · · · · · · · · · · · ·
快变形温度	1.80MPa 未退火	ISO 75-2/Af	95	°C
影膨胀系数	MD TD	ISO 11359-2 ISO 11359-2	1.2E-4 1.2E-4	cm/cm/C cm/cm/C
反版/版 系数	TD A BARBARA	160 11559-2	1.20-4	Cill/cill/cill
以 积电阻		TEC 60093	1.0E+15	Ω.cm
2面电阻		IEC 60093	1.0E+16	Ω.cm
6缘强度 6缘强度	3m m	IEC 60243-1 IEC 60243-1	29 19	KV/mm KV/mm
	Sm m Alert	IEC 00243-1	19	K v/mm
方火等级	All	UL-94	0.75mm	HB
方火等级	All	UL-94	1.50mm	HB
方火等级	All	UL-94	3.00mm	HB
「個別生活」			60-80	°C
F燥温度 F燥时间			2.0-6.0	Hr
也议水份含量	and the second	A CONTRACTOR OF THE OWNER	<=0.20	%
斗筒后部温度 斗筒中部温度	Charmen for the		170-190 180-200	°C °C
科简前部温度			190-210	°C
资嘴温度			200-220	°C
莫具温度			40-80 、数据、建议值等所有的数据及建订	°C
2				
•				
				8
			and the surple feets	
			pana masaran	



Signature Not Verified For Question Please Contact with SGS www.sgs.com.tw

號碼(No.): KA/2020/30459 日期(Date): 2020/03/09

頁數 (Page) : 1 of 9

Test Report

試驗報告

台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

以下测試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on							
behalf of the applicant as):							
送樣廠商(Sample Submitted By)	:	台灣寶理塑膠股份有限公司大發廠(POLYPLASTICS TAIWAN CO., LTD.)					
樣品名稱(Sample Description)	:	POM					
樣品型號(Style/Item No.)	:	M90-44 CF2001 / Lot No. 9B1013					
樣品色號(Color No.)	:	CF2001					
收件日期(Sample Receiving Date)	:	2020/03/03					
测试期間(Testing Period)	:	2020/03/03 to 2020/03/09					

测试需求(Test Requested):

	(2) 其他测試項目請見下一頁	
澳	試方法(Test Method)	:
澳	試結果(Test Results)	:
、結	論(Conclusion) : (1

- (Please refer to next pages for the other item(s).) 请参閱下一頁 (Please refer to following pages).
- 明子风下 및 (Trease refer to forflowing pages).
- : 請參閱下一頁 (Please refer to following pages).
- 根據客戶所提供的樣品,其鎬、鉛、汞、六價貉、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的测試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求.
 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

報告簽署人/張伯書/博士/技術經 Ray Chang, Ph.D/Manager -Te Signed for and on behalf of SGS Taiwan Limited 化學實驗室-高雄/Chemical Laborator



PIN CODE: 31444136

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/terms-and-Condi

SGS Taiw an Ltd. 台灣薇腦科投股份有限公司 Kai-Fa Road, Nanzin Export Processing Zone, Kachsiung, Taiwan / 高雄市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 Test Report ^{號碼(No.)}: KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

测试结果(Test Results)

測試部位(PART NAME)No.1 : CF2001 POM

测試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
鐍 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法,以感應耦合 電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-OES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5: 2013方法,以感應耦合 電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-OES.	2	n. d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4:2013+AMD1:2017,以感應 耦合電漿發射光譜儀檢測. / With reference to IEC 62321- 4:2013+AMD1:2017 and performed by ICP- OES.	2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	ng/kg	参考IEC 62321-7-2:2017,以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n. d.	1000
多溴哪苯總和 / Sum of PBBs				n.d.	1000
一溴聯苯 / Monobromobiphenyl	1	· · · · · · · · · · · · · · · · · · ·	5	n.d.	-
二溴聯苯 / Dibromobiphenyl	1		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	1		5	n.d.	- 1
四溴聯苯 / Tetrabromobiphenyl]	参考IEC 62321-6: 2015方法,以氣相層析/	5	n.d.	
五溴聯苯 / Pentabromobiphenyl	mg/kg	質譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯 / Hexabromobiphenyl		62321-6: 2015 and performed by GC/MS.	5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n. d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.scs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.scs.com/en/Terms-and-Conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiw an Ltd. 台灣薇蘭科技股份有限公司 No.61, Kat-Fa Road, Narah Export Rocessing Zone, Kachsiung, Taiwan / 高雄市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 Test Report

號碼(No.): KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

测试項目 (Test Items)	單位 (Unit)	测試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	
四溴聯苯醚 / Tetrabromodiphenyl ether		参考IEC 62321-6:2015方法,以氯相層析/	5	n.d.	_
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	質譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether		62321-6: 2015 and performed by GC/MS.	5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	-
へ溴聯苯醚 / Octabromodiphenyl ether	8.18 S.24		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	10,000 SN		5	n.d.	
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	-
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	参考IEC 62321-8:2017, 以氣相層祈儀/質 譜儀檢測. / With reference to IEC	50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP(Butyl Benzyl phthalate)(CAS No.: 85-68-7)		62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	2	50	n. d.	1000

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aster and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the lime of its intervention only and within the limits of client's instruction, if any. The Company's client at https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or fastification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Tatw an Ltd. 台灣薇臘科技股份有限公司 No.61, Kai-Fa Road, Naraih Export Roccssing Zone, Kaotsung, Taiwan / 高維市楠祥加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 號碼(No.): KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

测試項目 (Test Items)	單位 (Unit)	测試方法 (Method)	MDL	結果 (Result) No.1	限值 (Limit)
鹵素 / Halogen				Andrea and	
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n. d.	-
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582:2016,以離子層析儀檢 測. / With reference to BS EN	50	n. d.	
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2016. Analysis was performed by IC.	50	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.	-

備註(Note):

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未檢出)

3. MDL = Method Detection Limit (方法偵測極限值)

4. "-" = Not Regulated (無規格值)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.scs.com/en/Terms-and-Conditions/terms-and-Condi

SGS Taiw an Ltd. 台灣薇臘科技股份有限公司 No.61, Kai-Fa Road, Narcih Export Roccssing Zone, Kachsiung, Taiwan / 高雄市搞样加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 Test Report ^{號碼(No.)}: KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻测試方法除外) These samples were dissolved totally by pre-conditioning method according to below flow chart.(Cr⁶⁺ test method excluded)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.scs.com/en/Terms-and-Conditions.asex and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.scs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the lime of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or fastification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiw an Ltd 台灣磁驗科技股份有限公司 No. 61, Kai-Fa Road, Nanzih Exont Rocessing Zone, Kachsung, Taiwan / 高雄市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 Test Report ^{號码(No.)}: KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



SGS Tatw an Ltd. 台灣薇觀科技股份有限公司 No.61, Kai-Fa Read, Nanzih Export Roccssing Zone, Kachsung, Taiwan / 高雄市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sos.com/en/Terms-and-Conditions/terms-a-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or fastification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



試驗報告 Test Report ^{號码(No.)}: KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

可塑劑分析流程圖 / Analytical flow chart of phthalate content

【测试方法/Test method: IEC 62321-8】



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/en/Terms-and-Conditions approximate documents, subject to Terms and Conditions for Electronic Documents at http://www.sos.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions for Electronic Documents at https://www.sos.com/en/Terms-and-Conditions/Terms-

SGS Taiw an Ltd. 台灣薇顯科技股份有限公司 No.61, Kai-FaRead, Narzh Eport Roccssing Zone, Kachsung, Taiwan / 高維市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw



試驗報告 號碼(No.): KA/2020/30459 日期(Date): 2020/03/09

台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區潮寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

鹵素分析流程圖 / Analytical flow chart of halogen content



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.ses.com/en/ferms-and-Conditions as and for electronic formal documents, subject to Terms and Conditions for Electronic Documents at http://www.ses.com/en/ferms-and-Conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or ratification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiw an Ltd. 台灣磁驗科技股份有限公司 [No.61, Kai-Fa Road, Nardh Export Processing Zone, Kaohsung, Taiwan / 高雄市楠梓加工出口區開發路61號 t+886 (07) 3012121 f+886 (07) 3010867 www.sgs.com.tw

(Page)



試驗報告 Test Report ^{就碼(No.)}: KA/2020/30459 日期(Date): 2020/03/09



台灣寶理塑膠股份有限公司大發廠 POLYPLASTICS TAIWAN CO., LTD. 高雄市大寮區湖寮里建業路13號 NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

> * 照片中如有箭頭標示,則表示為實際檢测之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)



** 報告結尾 (End of Report) **

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/Terms-and-Conditions/terms-e-document, drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or fasification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulles textent of the fulles. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS Taiw an Ltd. 台灣蔗糖科技股份有限公司 No.61, Kai-Fa Road, Narah Export Roccssing Zone, Kachsiung, Taiwan / 高雄市榆梓加工出口區開發路61號 t+886 (07)3012121 f+886 (07)3010867 www.sgs.com.tw



日期: 2019年12月17日

第1页共7页

委托单位 Applicant 地 址 Address	:	旭全精密工业(深圳)有限公司 XuQuan Precise Industry(ShenZhen)Co.,LTD 广东省深圳市龙华区观澜镇新田村观平路 154 号 No.154,Guan Ping Road,Xin Tian Village,Guan Lan Town,Long Hua District,ShenZhen City,Guang Dong Province,China
样品名称 Sample Name 型 号 Model	:	黑色色粉 Black toner / /
接收日期 Received Date 检测日期 Test Period	:;	2019 年 12 月 02 日 Dec. 02, 2019 2019 年 12 月 02 日~2019 年 12 月 13 日 Dec. 02, 2019 ~ Dec. 13, 2019
检测概要		

Test Summary

编号: EG191202052C04X01ZVer.1

检测项目/Test Item	结论/Conclusion
欧盟指令 2011/65/EU (RoHS)及其修订指令(EU)2015/863、(EU) 2017/2102	
Directive 2011/65/EU (RoHS) and commission delegated Directive (EU)2015/863.	Pass
(EU)2017/2102	
注:Pass:符合要求;Fail:不符合要求;N/A:不评价或仅提供检测结果	
Remark: Pass: Meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclu	usions or provide test
results only.	

谨代表 苏州市信测林 10 He. 11 审 签 发: 编 制: 核: 姜宇锋, Jason 徐异文, Candy 测试主管 助理工程师 2019年12月17日

not in Adds are taky testionsche for delivered sambles. This test report is issued for the company and is intended for your exclusive use. This test report includes all of the resertraceeted by you and the reserved tester the information that you provided. You have SC days from data of issuance of this test report to eatify us of any error or onlessor obtained by our negligence. A takine to rake such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tosts reinductive and the conferencess of the report cumarks.

An 利用自治特殊技術報告有限公司 他は: 近形分中通済开放Sと認識は近常運動36-4514 Rold, Hitp://www.endex.com.cn 部语: 8-mail: suznou@ermex.com.cn の 日子 (Sighou) Co., Lei, Add: Bulleng 5, Na 35, Nach Goandii Road, Yugo Street, Vauriang Economic Development Zone, Sazhou, Jianysi: China, Hitp://www.endek.com.cn E-nail: suzhou@ermex.com.cn 日本語 suzhou@ermex.com.cn 日本語 Sight 256



编号: EG191202052C04X01ZVer.1

日期: 2019年12月17日

第2页共7页

样品描述 Sample Description

样品序号 Sample No.	样品编号 Sample Number	数量 Quantity	
01	EG19120205204	1pc	

检测结果汇总 Summary of Test Results

1. RoHS

1.1 检测方法 Test Method

Test Item 检测项目	测试方法 Test Method
镉 Cadmium (Cd),铅 Lead (Pb)	IEC 62321-5:2013
汞 Mercury (Hg)	IEC 62321-4:2013+A1:2017
六价铬 Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017
PBBs & PBDEs	IEC 62321-6:2015
DEHP, BBP, DBP, DIBP	IEC 62321-8:2017

1.2 检测设备 Test Instrument

设备名称 Instrument Name	厂 家 Manufacturer	型 号 Model
ICP-OES	Agilent	720
UV-Vis	SHIMADZU	UV-2600
GC-MS	Agilent	7890B-5977A
GC-MS	SHIMADZU	QP2010 Ultra

tes result are thy resonance to delivered services. This test report is issued by the company and is mended for your exclusive use. This test report includes all of the tearing adultaby you and the results transformation that you provided. You have 30 rays from data of issuance of this test report to notify us of any error or omession caused by our negligence. A leave to rate such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests inciducted and the conscious of the report contents.

当時市信潤原進技術報告有限公司 回注: 活州房中経済开发区総派信道北淀液路36号5線 向地。Hitch/www.entek.com.cn 部時: E-nail: auzhou@entek.com.cn の O Hotline こここそに気いたau Co. Lil Add: Baileing 5 No.38, Norn Guanta Read, Yuez Street, Vizziong Economic Davidopment Zone, Suzhou, Jiangsu, China, Http://www.entek.com.cn: E-naie, suzhau@entek.com.cn



编号: EG191202052C04X01ZVer.1

日期: 2019年12月17日

第3页共7页

1.3 检测结果 Test Result: 限值依照欧盟指令 2011/65/EU (RoHS)及其修订指令(EU)2015/863、(EU) 2017/2102/Limit according to Directive 2011/65/EU (RoHS) and commission delegated Directive (EU)2015/863、(EU)2017/2102

检测项目 Test Item	结果 Result (mg/kg) 01	MDL (mg/kg)	限值 Limit(mg/kg)
镉 Cadmium (Cd)	N.D.	2	100
铅 Lead (Pb)	N.D.	2	1000
汞 Mercury(Hg)	N.D.	2	1000
六价铬 Hexavalent Chromium (Cr 6+)	N.D.	8	1000

检测项目 Test Item	结果 Result (mg/kg) 01	MDL (mg/kg)	限值 Limit(mg/kg)
多溴联苯 (1 - 10) Polybrominated Biphenyls(Mono – Deca) (PBBs)	N.D.		1000
单溴联苯 Monobromobiphenyl	N.D.	5	~
二溴联苯 Dibromobiphenyl	N.D.	5	
三溴联苯 Tribromobiphenyl	N.D.	5	
四溴联苯 Tetrabromobiphenyl	N.D.	5	
五溴联苯 Pentabromobiphenyl	N.D.	5	
六溴联苯 Hexabromobiphenyl	N.D.	5	
七溴联苯 Heptabromobiphenyi	N.D.	5	
八溴联苯 Octabromobiphenyl	N.D.	5	
九溴联苯 Nonabromobiphenyl	N.D.	5	∎ a
十溴联苯 Decabromobiphenyl	N.D.	5	
多溴二苯醚 (1 - 10) Polybrominated Diphenylethers(Mono – Deca)(PBDEs)	N.D.		1000
单溴二苯醚 Monobromodiphenyl ether	N.D.	5	
二溴二苯醚 Dibromodiphenyl ether	N.D.	5	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5	un

Instant data and any teaconomic for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the teachreported by you and the results transformation the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or anascentiation by our negligeness. A leafure to rate such issue within the prescribed time shall constitute your unqualitied acceptance of the completeness of this report, the tests conducted is the information of the report contents.



编号: EG191202052C04X01ZVer.1

日期: 2019年12月17日

第4页共7页

检测项目 Test Item	结果 Result (mg/kg) 01	MDL (mg/kg)	限值 Limit(mg/kg)
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5	~~
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5	

检测项目 Test Item	结果 Result (mg/kg)	MDL. (mg/kg) 01	限值 Limit(mg/kg)	检测项目 Test Item
邻苯二甲酸二(2-乙基)己酯 Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	30	1000
邻苯二甲酸丁苄酯 Butyi benzyl phthalate (BBP)	85-68-7	N.D.	30	1000
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	N.D.	30	1000
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	N.D.	30	1000

备注 Note

1) N.D. =未检测到 (小于 MDL)/ Not Detected (Less than MDL)

2) MDL=方法检出限/ Method Detection Limit

3) 对于检测铅、镉、汞的样品已完全溶解/Specimens, which requested to determine Lead, Cadmium and Mercury content, have been dissolved completely.

1.4 检测流程图 Test Flowchart

Pb, Cd, Hg 检测流程/Pb, Cd, Hg Test Process:



rour results are only reasonable for delivered earlies. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the reades expected by you and the results thereof based uses the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omession raised by our negligence. A taking to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the consciences of the report currents.

寿治治療薬検療技学業者補養公司 - 2012: 万州安中提務予定医注意通道定道定道法道理語36号5集 - 約18, Hitp://www.entick.com.cn - 形治: E-mail-saziou@em.ex.com.cn の Hotino ENTIX Sustain: Co. Lit. Add Bullong 5, No.19, North Guandis Raed, Yuexi Street, Yueliang Economic Development Zone, Suzhou, Jangsti, China, Hitp://www.entek.com.cn - E-mail: saziou@artlek.com.cn



日期: 2019年12月17日 编号: EG191202052C04X01ZVer.1 第5页共7页 Add digestion Make up with Analyzed by Weigh sample deionized water **ICP-OES/AAS** reagent water water Cr6+ 检测流程/ Cr6+Test Process: 水浴加热条件下 有机溶剂溶解萃取 去离子水定容 样品称量 在碱性溶液中萃取 加入显色剂 使用紫外可见分光光度计在波长 540nm 处检测所得溶液 Extracted and dissolved Perform the extraction in Make up with Weigh sample with organic solvent alkaline solution in water deionized water hath hath IJ Analyze the mixture by using UV-Vis spectrophotometer with Add diphenylcarbazide solution wavelength set at 540nm

PBBs &PBDEs, DEHP, BBP, DBP, DIBP 检测流程/ PBBs &PBDEs, DEHP, BBP, DBP, DIBP Test Process:



seal "PSUS are one reasonshe to delivered sentres. This test report is issued by the company and is intended for your exclusive use. This test report includes all of this test report includes all of this test report or on tester or an exclusive use that the rescribed tiny our registence. A larger base based by our registence is larger based by our registence is larger based by our registence is larger based by our registence. A larger to notify us of any error or on tester or or each of this test report to notify us of any error or on tester or or one-sine individual of the registence. A larger to react estimate such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted in a line time consulters of the report deliver.

新生活部語構成文字報業有限公司 地理: 活用光中経済开発的延進意識化学改進 (All Hep Awww.entex.com.cn) 部語・E-mail: suznou@emex.com.cn の Photmai EntTY: Suzhou/ Coll. H. Adv. Bekeng 5. No.38. North GeanLis Read. Youri Street, Vuzeong Economic Development Zone, Suzhou, Jiangsu: China. Http://www.entek.com.cn: E-mail: suzhou@entek.com.cn



编号: EG191202052C04X01ZVer.1

日期: 2019年12月17日

第6页共7页

样品照片 Sample Photo



*** 报 告 结 束 *** *** End of Report ***

co. mode are only readonable for delivered samples. This test report is issued by die company and is intended for your exclusive use. This test report includes all of the teaces requested by you and the remains thoras' based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission request by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualitied acceptance of the completeness of this report, the tests conducted and the consciences of the report contents.

赤市市振興标准技不服务有限公司 地址 活用実中最新开发区检查通道北部市商活动改变 何知:Hoto Awww.endek.com.cn 部语:E-mail: suzhou@emex.com.cn の Hotone EstTY (Sizhou-Co., Lel, Adr Buding 6, No.18, North Guanai Road Yued Sinet, Vuzn-ing Economic Development Zone, Suzhou, Jiangsi: Chana. Hite -www.endek.com.cn E-mail: suzhou@endek.com.cn



编号: EG191202052C04X01ZVer.1

日期: 2019年12月17日

第7页共7页

声明 Statement

1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外,均由委托方提供,委托方对样品的代表性和资料的真实性负责。本实验室不承担任何相关责任。

The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.

2.本检测报告以实测值进行符合性判定,未考虑不确定度所带来的风险,特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担,本实验室不承担相关责任。

The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by the judgment method, and EMTEK shall not bear related responsibilities.

- 检测报告无批准人签字及"检验检测专用章"无效,未经本实验室书面同意,不得整体或部分复制本报告。
 The test report is effective only with both signature and specialized stamp. Without written approval of EMTEK, this report can't be reproduced in full or in part.
- 4.本检测报告的检测结果仅对送测样晶负责,未加盖资质认定标志的检测报告不对社会具有公证证明作用,对于检测数据、结果的使用。 所产生的直接或间接损失及一切法律后果,本实验室不承担任何经济和法律责任。 This test data is only responsible for the tested sample. The data and results provided by the report without CMA accreditation are not to prove to the society, and EMTEK is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.

5.本检测报告中检测项目标注有下划线则该项目不在本实验室资质认定能力范围内,该项目检测结果仅作为客户委托、科研、教学或内部质量控制等目的使用。 The underlined test item in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching teaching or internal quality control.

其它声明请查阅报告页脚及书面报告背页。
 For other statements, please refer to the footer of the report.

Sub-SSUb are only responsible for devered services. This test report is issued by del company and is intended for your exclusive use. This test report includes all of the earlier a like end by you and the insults bitmact based under the information that you provided. You have \$6 days from data of issuance of this test report includes all of the earlier and by our integligence. A follow to eating some state issues used user issue within the prescribed time shall constitute your unquilified acceptance of the completeness of this report, the tests constructs of the report endedles.

名 Hite 過激移動技術報告有限公司 2012: 近形学研想所形成活動通知部務(2015年、99年) - Hot Annew Centern 新聞, E-mail: suzzeru@emierk.com cn の Hotlané CNT X: Sizhou) Co. List. Ach: Bukking 5, No 39, north Guanda Rise. Your Start, Yoursing Economic Development Zono, Sizhou: Jiangio: China. 1910 Providential: Sizhoug/Entlex.com cr

			•		品質部
客户名称		订单号(PO.NO)		出货日期	To Bray of a state of
国际标准	JIS H32502006	试材品名	C3604	试材规格	φ10
化学试验	CHEMICAL TESTIN	IG		and the second	
仪器名称	瑞士ARLMA Cu直读	光谱仪			

元素名称	铜(Cu)	锌(Zn)	铅(Pb)	铁(Fe)	锡(Sn)	铝(Al)	锰(Mn)	硅 (Si)	锑(Sb)	镉(Cd)	铋(Bi)	磷(P)	镍(Ni)
试片含量	58.04	37.9264	3.2182	0.3131	0.3088	0.0826	0.0055	0.0059	0.0062	0.0036	0.0047	0.0030	0.0819

机械试验	MECHANICAL TESTING						
仪器名称	WD-50B电子式万	能试验机			o increase a la	stant character and	
物理性质	抗拉强	虽度	延伸	率	硬度		
实际数值	429	[Mpa]	8	δ ₁₀ ≥[%]	128	HV1.0	
单位主管		蒋国飞		分析员	胡艳	日素	

南海毅兴铜业有限公司化学成份测试报告及物理性能测试报告

VI Eill



No. CANEC2008422204

日期: 2020年06月04日 第1页,共6页

佛山市南海毅兴铜业有限公司

中国广东省佛山市南海区狮山镇南海经济开发区北园北园中路18号

以下测试之样品是由申请者所提供及确认:黄铜棒

SGS工作编号: 型号: 样品接收日期: 测试周期: 测试更求: 测试方法: 测试结果: 结论: CP20-026040 - GZ C3604 2020年06月01日 2020年06月01日 - 2020年06月04日 根据客户要求测试 请参见下一页 请参见下一页

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

通标标准技术服务有限公司广州分公司 授权签名

玉玉版

Jessie Li李嘉欣 批准签署人



My her in



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service painted overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention. To check the authonticity of testing /inspection report & certificate, pisses contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@cons.com

198 Kazhu Road Scientach 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



No. CANEC2008422204

日期: 2020年06月04日 第2页,共6页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN20-084222.002	黄铜色金属

备注:

(1) 1 mg/kg = 0.0001%
 (2) MDL = 方法检测限
 (3) ND = 未检出 (< MDL)
 (4) "-" = 未规定

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

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

测试项目	限值	单位	MDL	<u>002</u>	
镉 (Cd)	100	mg/kg	2	22	1
铅 (Pb)	1,000	mg/kg	2	33795▲	
汞 (Hg)	1,000	mg/kg	2	ND	
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND	
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND	
一溴联苯		mg/kg	5	ND	
二溴联苯	-	mg/kg	5	ND	
三溴联苯	-	mg/kg	5	ND	
四溴联苯	-	mg/kg	5	ND	
五溴联苯	-	mg/kg	5	ND	71.11
六溴联苯	-	mg/kg	5	ND	
七溴联苯	-	mg/kg	5	ND	
八溴联苯		mg/kg	5	ND	
九溴联苯	-	mg/kg	5	ND	
十溴联苯	-	mg/kg	5	ND	/
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	1
一溴二苯醚	 -,	mg/kg	5	ND	4
二溴二苯醚	-	mg/kg	5	ND	市
三溴二苯醚	-	mg/kg	5	ND	1
四溴二苯醚	- 1	mg/kg	5	ND	
五溴二苯醚	-	mg/kg	5	ND	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-end-countents, subject to Terms and Conditions/Terms-end-conditions/Terms-end-

Attention: To chock the authenticity of testing inspection reports certificate, press cer

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



No. CANEC2008422204

日期: 2020年06月04日 第3页,共6页

测试项目	限值	单位	MDL	<u>002</u>
六溴二苯醚		mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚		mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863 。IEC 62321系列等同于 EN 62321系列 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637,25

(2) ▼=a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;

b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时,样品为阴性,即未检测到六价铬;

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时,无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果:

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

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

除非另有说明,此报告结果仅对测试的样品负责。本报告未经本公司书面许可,不可部分复制。 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



miral I siveste

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8387 1443, or email: CN.Doccheck@sgs.com

198 Kezhu Road Scieniech 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



No. CANEC2008422204

日期: 2020年06月04日 第4页.共6页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





Unless otherwise spreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available or request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that Information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of clients" instructions, it any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443.

Attention: To check the authentic or email: CN.Doccheck@sgs.com 198 Kezhu Road, Scienlech 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



No. CANEC2008422204

日期: 2020年06月04日 第5页,共6页

1 Matrice

HTA E

附件

Phthalates 测试流程图





Unless otherwise agroad in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document in lawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this tost report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8367 1443, or email: CN.Doccheck@sgs.com 198 KazhuRoadScieniech Park Guargziou Economic& Technology Development District Guargzhou, Chine 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



No. CANEC2008422204

第6页,共6页

样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***



1 11 11 1 1



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions, aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Condit</u>

198 Kezhu Road, Scieniach Pak Suanghou 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



客户名称		订单号(PO.NO)		出货日期	
国际标准	B16M-2005	试材品名	C3602	试材规格	Φ6
化学试验	CHEMICAL TESTING	G	and the second and	and we also for	and the second
仪器名称	瑞士ARLMA Cu直读	光谱仪			

元素名称	铜(Cu)	锌(Zn)	铅(Pb)	铁(Fe)	锡(Sn)	铝(Al)	锰(Mn)	硅 (Si)	锑(Sb)	镉(Cd)	铋(Bi)	磷(P)	镍(Ni)
标准值	59-63	余量	1.8-3.7	< 0.5	<0.5	-	-	-	-	< 0.01	-	1	-
试片含量	60.56	36.5710	2.0801	0.3080	0.3199	0.0764	0.0064	0.0035	0.0081	0.0030	0.0049	0.0038	0.0547

机械试验	MECHANICAL T	ESTING		Seattle States	all and all	E.
仪器名称	WD-50B电子式万	能试验机				
物理性质		虽度	延伸	申率	硬度	
实际数值	429	[Mpa]	9	δ ₁₀ ≥[%]	128	HV1.0
单位主管		蒋国飞	1	分析员	精密方云胡艳	



No. CANEC2008422202

日期: 2020年06月04日 第1页,共6页

佛山市南海毅兴铜业有限公司

中国广东省佛山市南海区狮山镇南海经济开发区北园北园中路18号

以下测试之样品是由申请者所提供及确认:黄铜棒

SGS工作编号: 型号: 样品接收日期: 测试周期: 测试要求: 测试方法: 测试结果: 结论: CP20-026040 - GZ C3602 2020年06月01日 2020年06月01日 - 2020年06月04日 根据客户要求测试 请参见下一页 请参见下一页

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

通标标准技术服务有限公司广州分公司 授权签名

李新队

Jessie Li李嘉欣 批准签署人





17 201 1 11



Unless otherwise agreed in writing, this document is issued by the Company surject to its General Conditions of Service printed overleaf, available or request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extant of the law. Unless otherwise stated the results shown in this "st report refer only to the sample(s) tested . Attention: To check' the authonticity of tosting, Imspecific Intervent & certificate, please contact us at telephone: (86-755) 8307 1443.

198 Kezhu Road Scientech Park の ungzhou Economic & Technology Development Diskitd Quangzhou, China 510663 1 (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.on 中国・广州・经济技法 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



No. CANEC2008422202

日期: 2020年06月04日 第2页,共6页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN20-084222.001	黄铜色金属

备注:

(1) 1 mg/kg = 0.0001%(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

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

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

测试项目	限值	单位	MDL	<u>001</u> .	
镉 (Cd)	100	mg/kg	2	17	
铅 (Pb)	1,000	mg/kg	2	23398▲	
汞 (Hg)	1,000	mg/kg	2	ND	
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND	
多溴联苯之和(PBBs)	1,000	mg/kg		ND	
一溴联苯		mg/kg	5	ND	
二溴联苯	-	mg/kg	5	ND	
三溴联苯	-	mg/kg	5	ND	(
四溴联苯	-	mg/kg	5	ND	
五溴联苯	-	mg/kg	5	ND	
六溴联苯	-	mg/kg	5	NĎ	
七溴联苯	- 14 - 14	mg/kg	5	ND	
八溴联苯	-	mg/kg	5	ND	
九溴联苯		mg/kg	5	ND	1 # 44
十溴联苯	-	mg/kg	5	ND	臣东着金
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND	A THE A
一溴二苯醚		mg/kg	5	ND THE S	EHZ
二溴二苯醚	-	mg/kg	5	ND	関 (1)
三溴二苯醚	-	mg/kg	5	ND	an
四溴二苯醚	-	mg/kg	5	ND	1
五溴二苯醚	-	mg/kg	5	ND	



Unless otherwise egreed in writing, this document is issued by the Company subject to its General Conditions of Series and Conditions of Series and Conditions of Series and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</u>. Attention is drawn to the limitation of liability, Indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulliest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

oremail: CN_Doccheck@sgs.com 198 Kedlu Road,Scientech Park Giangshou Economic& Technology Development District,Guangshou,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域科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

SGS

测试报告	
------	--

No. CANEC2008422202

日期: 2020年06月04日 第3页,共6页

			and the second	
测试项目	限值	单位	MDL	<u>001</u>
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚		mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863 。IEC 62321系列等同于 EN 62321系列 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637,25

(2) ▼=a. 当六价铬的浓度高于0.13 µg/cm²时,样品为阳性,即含有六价铬;

b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时,样品为阴性,即未检测到六价铬;

c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时,无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

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

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

除非另有说明,此报告结果仅对测试的样品负责。本报告未经本公司书面许可,不可部分复制。 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。





erwise agreed in writing, this document is issued by the Company su railable on request or accessible at http://www.sgs.com/ar/Terms-and-Ci Terms and Conditions for Electronic Documents at http://www.sgs.com/ drawn to the limitation of liability, indemnification and jurisdiction issu information contained hereon reflects the Company's findings at the tructions, if any. The Company's sole responsibility is to its Client ar from exercising all their rights and obligations under the transaction from exercising all their rights and obligations under the transaction subject to its General Conditions of Service printed <u>I-Conditions.aspx</u> and, for electronic format documents. om/en/Terms-and-Conditions/Terms-e-Document.aspx. ssues defined therein. Any holder of this document is lings at the units Client and

198 Kezhu Road, Scienlech Park Guangzhou Economic & Technology Dev nt Distrid, 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



No. CANEC2008422202

日期: 2020年06月04日 第4页,共6页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms.and-Conditions.for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms.and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregrey or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unlass otherwise stated the results shown in this test report refer only to the example(bisted). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@essa.com

198 Kezhu Road, Scieniach Park Guergzhou Economic & Technology Development Distinct; Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.on

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



No. CANEC2008422202

日期: 2020年06月04日 第5页,共6页

附件

Phthalates 测试流程图





17 1. 17 1 1 1



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested . Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sss.com

198 Kezhu Road, Scienlech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sg.sgroup.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



No. CANEC2008422202

日期: 2020年06月04日

第6页,共6页

样品照片:



此照片仅限于随SGS正本报告使用 *** 报告完 ***



17 July 1



CN.Docci

ocking

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Serie printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, Indewnification and jurisdiction issues defined therein. Any holder of this document is atvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faislication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

198 Kazhu Road,Scieniech Park Guargzhou Economic & Technology Development District, Guargzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中国・广州・经济技 永开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (88-20) 82075113 e sgs.china@sgs.com


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

客户: 旭全

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

化学成份(%)

执行标准: JIS H 3130:2012

化学 元素	CAS.NO	实测 含量	标准含量	化学 元素	CAS.NO	实测 含量	标准含量	化学元 素	CAS.NO	实测 含量	标准含量
铜 Cu	7440-50-8	余量	余量	锌 Zn	7440-66-6	0.15	≪0. 2	铁 Fe	7439-89-6	0. 017	≪0. 1
锡 Sn	7440-31-5	7. 46	7.0-9.0	磷 P	12185-10-3	0. 15	0.03-0.35	铅 Pb	7439-92-1	0.002	≪0. 02
锑 Sb	7440-36-0			硅 Si	7440-21-3			铋 Bi	7440-69-9		
镍 Ni	7440-02-0			锰 Mn	7439-96-5			铝 Al	7429-90-5		
银 Ag	7440-22-4			砷 As	13826-64-7			镉 Cd	7440-43-9		
硫 S	7704-34- 9			钴 Co	7440-48-4			铍 Be	7440-41-7		
镁 Mg	7439-95-4			铬 Cr	7440-47-3			Cu+Sn+ P		99.77	≥99. 7
物理性的	能:								1	SCHAR NOUS	STRUAL MATCH
	测试项目		实测值		标准值		测试项目		实测值	A STATE	标准值
抗打	立强度 N/mn	n2	757		735-835		延伸率(%)		/	产品档	
	杯突值						维氏硬度 HV		239	MS *	230-250

生产日期: 20180814

确认:靳云涛



No. CANEC2003916107

Date: 03 Apr 2020

Page 1 of 7

SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.

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

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

SGS Job No.	CP20-011537 - SZ
Date of Sample Received :	27 Mar 2020
Testing Period :	27 Mar 2020 - 03 Apr 2020
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



Jessieli

Jessie Li Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/an/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/an/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/an/Terms-and-Conditions/Terms-e-Document.aspx. Attention is dvised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or responsibility is to its in Client's instance of this document fue content or appearance of this document is unaversite attent of the subsection report alted to the fullest extent of the automatic way to the sample(s) tested.

Attention: To check the authenticity of testing imspection report & certificate, plassy contact as at telephone: (86-755) 8307 1443, or small, <u>CH, Doschesck@aus.com</u> [98/exh/Wax(Someh/Park Sunghou Exonnet Netrology Development Diskid Guarghou 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 罅编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@egs.com



No. CANEC2003916107

Date: 03 Apr 2020

Page 2 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN20-039161.007	Copper-colored metal

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	17
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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-end-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-end-Conditions/

中国·广州·经济技术开发区科学城科珠路198号 鄭编: 510663 t (86-20) 82155555 t (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC20039161	Date: ()3 Apr 2020	Page 3 of 7	
Test Item(s)	Limit	<u>Unit</u>	MDL	<u>007</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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637,25

(2) v = 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 EPA 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	<u>007</u>
Beryllium (Be)	mg/kg	5	ND



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sqs.com/an/Terms-and-Conditions_apx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sqs.com/an/Terms-and-Conditions_apx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sqs.com/an/Terms-and-Conditions_apx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sqs.com/an/Terms-and-Conditions/Terms-enDocument.apx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's ole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or regults shown in this test report refer only to the sample(s) tested . Attention. To chack the authenticity of tasting inspection report class contract us at telephone. (86-755):8307 1443

or amail: CN. Docchack @sgs.com 198 Kadu Rod Scienked Pak Guangdou Economic & Technology Development Diahd, Guangdou, China: 510,663 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 t (86-20) 82075113 @ sgs.china@sgs.com



No. CANEC2003916107

Page 4 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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.scs.com/en/Terms-and-Conditions_aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.scs.com/en/Terms-and-Conditions_Terms-and-T</u>

Altention: To check the authenticity of testing finspection report & certificate, please contact us at telephone: (86-755)8302 1443 or email: CN.Docoheck@sys.com

1後 Kazhu Road, Sommer, Part Gangaton Economic & Technology Development District Gangaton, 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域科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC2003916107 Date: 03 Apr 2020

Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sqs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sqs.com/en/Terms-and-Conditions/Terms-enOcument.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to list Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or responsible to this test report refer only to the sample(s) tested . Attention: To check the authenticity of testing insoection report 6 certificate, please contact us at telephone; (86-755)8367 v443

To check the authenticity of testing inspection report & certificate, please contact us at telephoner (\$6-755) 8367 (443 Attention mail CN.Doccheck@sgs.com

138 Kachu Ruad, Salentech Park Guangahou Economic & Technology Development Diatod, Guangzhou, China 510663 t (86-20) 82155555 / (86-20) 82075113 www.sgsgroup.com.cn 邮编: 510663 t(86-20) 82155555 t(86-20) 82075113 e sgs.china@sgs.com 中国·广州·经济技术开发区科学城科珠路198号



No. CANEC2003916107

Date: 03 Apr 2020

Page 6 of 7

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Te

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 @ sgs.china@sgs.com



No. CANEC2003916107

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sas.com/en/Terms-and-Conditions_Terms-on-Comma days. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document aspx. Attention is drawn to the limitation of liability indemnification and jurisdiction issues defined therein. Any holder of this document aspx. Client's instructions, if any. The Company's sole responsibility is to its Client and this document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested.

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



<u>SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO.,</u> LTD. 深圳市明鑫工业材料有限公司 产品检测单

客户: 加全

各尸:/	巴土										
产	品名称			黄铜			产品规格		0.30mm		
产	品牌号		C268	30 兴业料			产品状态		Н		
厚	度公差		+0	/-0.015			宽度公差			+0/-0.1	
化学成	份(%)					I			执行核	示准: JIS	H 3100:2012
化学 元素	CAS.NO	实测含 量	标准含 量	化学元 素	CAS.NO	实测 含量	标准含量	化学元 素	CAS.NO	<u> </u>	标准含量
铜 Cu	7440-50-8	65.37	64.0-68.0	锌 Zn	7440-66-6	余量	余量	铁 Fe	7439-89-6	0. 007	≪0. 05
锡 Sn	7440-31-5			磷 P	12185-10-3			铅 Pb	7439-92-p1	0.002	≪0. 05
锑 Sb	7440-36-0			硅 Si	7440-21-3			铋 Bi	7440-69-9		
镍 Ni	7440-02-0			锰 Mn	7439-96-5			铝 Al	7429-90-5		
银 Ag	7440-22-4			砷 As	13826-64-7			镉 Cd	7440-43-9		
硫 S	7704-34- 9			钴 Co	7440-48-4			碳 C	7440-44-0		
镁 Mg	7439-95-4			铬 Cr	7440-47-3			杂质总 和	AL SCHOL	DUSTRIAL MA	
物理性的	能:				1						E
	测试项目		实测值		标准值		测试项目		实测值	和检验室	标准值
抗拉	立强度 N/mm	12	463		410-540		延伸率(%)		3	*	
	杯突值				<u> </u>		维氏硬度 HV		145		140-160

生产日期: 20180814

确认:靳云涛



No. CANEC2002040001

Date: 09 Mar 2020

Page 1 of 7

SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.

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

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

SGS Job No. :	CP20-004988 - SZ
Date of Sample Received :	03 Mar 2020
Testing Period :	03 Mar 2020 - 09 Mar 2020
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

Zmgnan

Zm guan Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/enf/ems-and-Conditions_sgs</u> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/enf/ems-and-Conditions_sgs</u> and, for electronic formal documents, Attention is drawn to the limitation of liability, indemnification and juriadiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document, and the document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document field under under the functional distribution of the written escale at the sub-other state attendent results shown in this test report refer only to the sample(s) tested. agreed in writing, this document is issued by the Company subject to its General Con tions of Serv

Attention: To check the authenticity of texting rinspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or small, <u>GN.Doccheck@sgs.com</u>

198 Keztu Roed, Scieniesth Part Guangstou Economic & Technology Development Diabid; Guangstou; China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 邮编:510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com 中国·广州·经济技术开发区科学城科珠路198号



No. CANEC2002040001

Date: 09 Mar 2020

Page 2 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN20-020400.001	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, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	<u>Unit</u>	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	61
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	1,000		5	ND
	-	mg/kg		
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



otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed , available on request or accessible at http://www.sgs.com/en/Terma-and-Conditiong.agox and, for electronic format documents, to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terma-and-Conditiong/Terma-and-Conditiong/Terma-and-Conditiong/Terma-and-Conditiong/Terma-and-Conditiong.terma-to-thermatic at the termation of the second and the termatic and the termatic and the termatic and the termatic activity of the termatic activity and within the limits of instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced and full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or noce of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unlaws otherwise stated the document the authentic the authentic termatic activity activity activity and the activity of the sample(s) lested.

s shown in this test report refer only to the sample(e) tested. ion: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755)8307 1443 all: CN.Dpcoheck@ygs.com

198 Kezhu Road, Scienlach Park Guangzhou Economic & Technology De iopment Diahd, 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 前编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC20020400	No. CANEC2002040001			Page 3 d
Test Item(s)	Limit	Unit	MDL	<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 (DEHF	P) 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) ▼= 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 EPA 3050B:1996), analysis was performed by ICP-OES.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sos.com/en/Terms-and-Conditions_aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sos.com/en/Terms-and-Conditions_Terms-and-Conditions_Terms-and-Conditions_Terms-and-Conditions_Terms-and-Conditions_Terms-Te</u>

Attention: To check the authenticity of testing Anspection report & certificate, picase contact us at telephone: (86-755)8267 1443, or email: CN.Docobeck@sgs.com

| 1% Katu Razt, Scienkich Part Guargehou Economic & Technology Development Diarid, Guargehou, 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域科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@esgs.com

of 7



No. CANEC2002040001

Date: 09 Mar 2020

Page 4 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).





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/on/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sos.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in tuit, without prior written approvel of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is uniawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested. Attention: To check the authenticity of tosting inspection report & certificate please contact us at telephone: (86-755) 8307 1443. or email: CN blocheck@sub.com

198 Kechu Road, Soisnindh Park Gangahou Economic & Technology Development District, Guangahou, 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



No. CANEC2002040001

Date: 09 Mar 2020

Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overloaf, available on request or accessible at <u>http://www.sos.com/en/Terms-and-Conditions_aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sos.com/en/Terms-and-Conditions_Terms-and-Terms-and-Terms-and-Terms-and-Terms-and-Conditions_Terms-and-Te</u>

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

|1%/Karbu Raad,Saimlach Park Gaangahou Economic & Technology Development Distric(Gaangahou,Chine 510663 tt (86-20) 82155555 ft (86-20) 82075113 www.sgsgroup.com.cn 中国・广州・经济技术开发区科学媒科珠路198号 邮编: 510663 tt (86-20) 82155555 ft (86-20) 82075113 @ sgs.china@sgs.com



No. CANEC2002040001

Date: 09 Mar 2020

Page 6 of 7

ATTACHMENTS

Elementary Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overfeaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/T

198 Kestru Road, Scientech Park Guangstou Economic & Technology Development District, Guangstou, 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



No. CANEC2002040001

Date: 09 Mar 2020

Page 7 of 7

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/an/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/an/Terms-and-Conditions/Terms-eno-Condition</u>

198 Kedru Road, Scientech Park Guangshou Economic & Technology Development District, Guangshou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中間·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 · sgs.china@sgs.com



报告编号	A2200360964101002E
Report No.	A2200360964101002E

٢

第1页 共9页 Page 1 of 9

报告抬头公司名称	深圳市和美科技有限公司
Company Name	SHENZHEN HEMEI TECHNOLOGY CO.'LTD.
shown on Report	
地 址	深圳市龙岗区坪地街道四方埔村1号银台和美工业园二期一栋
Address	HEMEI INDUSTRIAL PARK ,SIFANGPU VILLAGE 1ST, PINGDI STREET ,
	LONGGANG DISTRICT , SHENZHEN , PR. CHINA

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 Sample Name 材料名称 Material 样品接收日期 Sample Received Date	氨基磺酸镍电镀镀层 Nickel sulfamate plating 氨基磺酸镍镀层 Nickel sulfamate coating 2020.10.16 Oct. 16, 2020
样品检测日期	2020.10.16-2020.10.21
Testing Period	Oct. 16, 2020 to Oct. 21, 2020
检测要求	根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价铬(Cr(VI)), 多 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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), Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctane Sulfonates(PFOS) Perfluorooctanoic Acid(PFOA) in the submitted sample(s).

检测依据/检测结果 Test Method/Test Result(s) 请参见下页。 Please refer to the following page(s).



报告编号 A2200360964101002E Report No. A2200360964101002E 检测依据 Test Method

GTI E M AR MU

٢

第2页共9页 Page2of9

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead(Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
多溴联苯 Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
钹 Beryllium(Be)	参考US EPA 3050B:1996 & US EPA 6010D:2018 Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考US EPA 3050B:1996 & US EPA 6010D:2018 Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	参考EN 14582:2016 Refer to EN 14582:2016	IC
瓴 Chlorine (Cl)	参考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考EN 14582:2016 Refer to EN 14582:2016	IC
碘 lodine (l)	参考EN 14582:2016 Refer to EN 14582:2016	IC
全氣辛烷磺酸 Perfluorooctane Sulfonates(PFOS)	参考DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)	参考DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS



报告编号 A2200360964101002E Report No. A2200360964101002E 检测结果 Test Result(s)

第3页 共9页 Page 3 of 9

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
铅 Lead(Pb)	N.D.	2 mg/kg
镉 Cadmium(Cd)	N.D.	2 mg/kg
汞 Mercury(Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium(Cr(VI))	N.D. ¥	0.10 μg/cm ² (LOQ)
测试项目 Tested Item(s)	结果 Result	
多溴联苯 Polybrominated Biphenyls(PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴二苯醚 Polybrominated Diphenyl Ethers ((PBDEs)	
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg

报告编号	A2200360964101002E		
Report No.	A2200360964101002E		
检测结果 Test Result(s)			

GTTI IL JUI KO JUI

٢

第4页共9页 Page4of9

位网络米 Test Result(s)		
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
邻苯二甲酸酯 Phthalates (DBP, BBP, DEH	IP, DIBP)	
邻苯二甲酸二丁酯 Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
铍 Beryllium(Be)	N.D.	2 mg/kg
锑 Antimony(Sb)	N.D.	5 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
氟 Fluorine(F)	N.D.	10 mg/kg
氛 Chlorine(Cl)	N.D.	10 mg/kg
溴 Bromine(Br)	N.D.	10 mg/kg
碘 lodine(l)	N.D.	10 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
全氟辛酸 Perfluorooctanoic Acid(PFOA)	N.D.	0.01 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS)	N.D.	0.01 mg/kg

人気を、一用言



报告编号	A220036096410	1002E
Report No.	A220036096410	1002E
样品/部位描:	述	银色金属
Sample/Part	Description	Silvery metal

为于检测铅,镉,汞,铵,锑之样品已完全溶解。 -N.D. = 未检出(小于方法检出限或定量限)
 -mg/kg = ppm = 百万分之一
 -LOQ = 定量限,六价铬的定量限为0.10 μg/cm²
 -^{*}六价铬浓度小于0.10 μg/cm²,样品未检出六价铬。

Remark:The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium,
Antimony.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)</th>

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μ g/cm²

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 $\mu g/cm^2$. The coating is considered a non-Cr(VI) based coating.

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

第5页 共9页 Page 5 of 9





NA Laipro



报告编号

检测报告 Test Report

第7页 共9页 Page 7 of 9

Report No. A2200360964101002E 4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

A2200360964101002E

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









报告编号 A2200360964101002E **Report No.** A2200360964101002E

第9页 共9页 Page 9 of 9

样品图片 Photo(s) of the sample(s)



声明Statement:

- 1. 检测报告无批准人签字、"专用章"及报告骑缝章无效;
- This report is considered invalid without approved signature, special seal and the seal on the perforation; 2. 报告抬头公司名称及地址、样品及样品信息由申请者提供,申请者应对其真实性负责,CTI未核实具 真实性;

The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

- 本报告检测结果仅对受测样品负责;
 The result(s) shown in this report refer(s) only to the sample(s) tested;
- 未经CTI书面同意,不得部分复制本报告; Without written approval of CTI, this report can't be reproduced except in full;

 如检测报告中的英文内容与中文内容有差异,以中文为准。 In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

> ***报告结束*** *** End of report ***



No. CANEC2003673608

Date: 30 Apr 2020

Page 1 of 7

DONGGUAN CHENGXU HRDWARE PRODUCTS CO., LTD

LINHAI INDUSTRIAL ZONE FENGHUANG MOUNTAIN SHAJIAO HUMEN TOWN DONGGUAN CITY

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

SGS Job No. :	CP20-010732 - GZ
Manufacturer :	DONGGUAN CHENGXU HRDWARE PRODUCTS CO., LTD
Date of Sample Received :	25 Mar 2020
Testing Period :	25 Mar 2020 - 24 Apr 2020
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

Nobet Shi

Violet,Shi Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions_aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Altenhon To check the authenticity of testing unspection report & cortificate piezes contact as at leignnone. (86-755)(220-: 1642).

Attention: To check ind authenticity of testing inspection report & contrictore piezze contact as at telephone: (86-75) 8367-1443, or entrai: CN. <u>Roscheck@asa.com</u> (18KeduRed,Seieleh Pat Geogdou Econnick Technolog Devignent Debid,Geogdou,Chire 51,0663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn



No. CANEC2003673608

Page 2 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN20-036736.015	Silver-white metal

Remarks :

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

- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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

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

Cadmium (Cd) 100 mg/kg 2 ND Lead (Pb) 1,000 mg/kg 2 ND Mercury (Hg) 1,000 mg/kg 2 ND Hexavalent Chromium (Cr(VI))▼ - µg/cm² 0.10 ND	
Mercury (Hg) 1,000 mg/kg 2 ND	
Hexavalent Chromium (Cr(VI))▼ - µg/cm ² 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)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overloaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonersia parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document tis unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this last report refer only to the sample(s) lested.

nt & certificatio, pleasi, contact us at telephone: (86-75518387-1443 To check the authenticity of teste

196 Kebu Rad, Seinkeh Pak Gangdou Economic & Technology Development Diarici, Gangdou, China 510663 1 (86–20) 82155655 1 (86–20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC20036736	08	Date: 3	80 Apr 2020	Page 3 of 7
Test Item(s)	Limit	<u>Unit</u>	MDL	<u>015</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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258 637,25

- (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 $\mu g/cm^2$ and 0.13 $\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination

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

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.	Unit	MDL	015
Perfluorooctanoic acid (PFOA) and its salts+	-	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	0.01	ND

Notes :

^ 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.seg.com/ent/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.seg.com/ent/Terms-and-Conditions.aspx and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document, and the excent excent are parties to a transaction from exercising all their rights and obligations under the transaction document. This document is extended to the content or except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification in such sole to results shown in this test report refer only to the sample(s) testd. Attention, To check the authenticity of testing imspection report & cortificato, please contact us at telephone: (86-755)8307 1443

18/Kadu Road,Solandah Park Gangshou Economic & Technology Development Diatria,Guangshou,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域科珠路198号 節編: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC2003673608

Date: 30 Apr 2020

Page 4 of 7

ATTACHMENTS

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

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





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible al http://www.sgs.com/en/Terms-and-Conditions_terms and Conditions for the terms and Conditions of the term reflects the Company's findings at the time of its intervention only and within the terms terms on the content of the term reflects the Company's findings at the time of this document takes transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced oxcept in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested.

iterificit To check the authenticity of toeting inspection report & commune, viease contact us at telephone. (86-755) 8367 14 remain CN, Docebeck@sgs.com Weakbod Gudanda Du Construction of Yater Anno 1997

138 Kachu Road, Sdeelalach Park Guangshou Economic & Technoogy Development Diahid, Guangshou, 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域科珠路198号 解编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC2003673608

Date: 30 Apr 2020

Page 5 of 7

ATTACHMENTS

Phthalates Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overfeaf, available on request or accessible at <u>http://www.sos.com/an/Terms-and-Conditions_aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sos.com/en/Terms-and-Conditions/Terms-and-Conditi</u>

198 Kazhu Ruad, Scientisch Park Guangzhou Economic & Technology Development Diatrici, 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



No. CANEC2003673608

Date: 30 Apr 2020

Page 6 of 7

ATTACHMENTS

PFOA / PFOS Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/an/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditio</u>

中国·广州·经济技术开发区科学城科珠路198号 鄭编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC2003673608

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.ses.com/en/Terma-and-Conditions_aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.ses.com/en/Terma-and-Conditions_aspx</u> and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time with the termina-pd-countent aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document fa advised that information contained hereon reflects the Company's findings at the time of its Intervention only and within the limits of Cliant's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offendere may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested.

Attention: To check the authenticity of testing Hospectian zeport & certificate please contact us at telephone: (86-755) 8367 1443 et email: OK.Doccheck@sgs.com 1% KabuRaad,Saintach Park Guarghau Economic & Technology Dwelcoment Diahd,Guarghau,China 510 663 t (86-20) 82155655 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: 510 663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

TSCA PBT 符合性聲明書 TSCA PBT Declaration of Conformance



敬請 貴公司 知悉與回應如下:

因應美國環保署(EPA)於2020年12月更新美國TSCA(Toxic Substances Control Act)毒性物質管理法第6(h)節5項具有PBT(Persistent、Bio-accumulative and Toxic)毒性的化學物質管理要求,請貴公司配合回應:交貨與研揚的材料,成品,須符合此法規更新。

物質名稱	限制要求	豁免要求
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚 CAS No. 1163-19-5	 2022年7月6日之後,禁止用於酒店業的添加 DecaBDE 窗簾的製造、加工和商業分銷 2021年3月8日之後,禁止製造和加工 其他含 DecaBDE 的物品 2022年1月6日之後,禁止進行商業分 銷 	商業上用於從物品中回收含DecaBDE 的塑料以及由這種回收塑料製成的含 DecaBDE 的製品的商業加工和分銷, 在回收或生產過程中未添加新的 DecaBDE
Phenol, isopropylated phosphate (3:1) [PIP (3:1)] 異丙基化磷酸三苯酯 CAS No. 68937-41-7	 2022年1月1日之後,禁止含 PIP (3:1) 照相印 刷物品的商業加工和分銷 2021年3月8日之後,禁止其他含 PIP (3:1)物 品的商業加工和分銷 	 用於從含 PIP (3:1)的物品中回收的 塑料,其中在回收過程中未添加 新的 PIP (3:1) 從包含 PIP (3:1)的產品或物品中回 收的塑料製成的成品,其中在生 產由再生塑料製成的物品時未添 加新的 PIP (3:1)
Pentachlorothiophenol (PCTP) 五氯硫酚 CAS No. 133-49-3	 2021年3月8日之後,禁止製造和加工 PCTP 含量超過1%的物品 2022年1月6日之後,禁止進行商業分銷 	

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

Page 1 / 2

Focus • Agility • Competitiveness

TSCA PBT 符合性聲明書 TSCA PBT Declaration of Conformance

Hexachlorobutadiene (HCBD) 六氯丁二烯 CAS No. 87-68-3	 2021年3月8日之後,禁止製造、加工和銷售 含六氯丁二烯的物品 	
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) 2,4,6 三-叔丁基苯酚 CAS No. 732-26-3	- 與成品使用無關	

美國環保署(EPA) TSCA(Toxic Substances Control Act)毒性物質管理法第 6(h)網

址:

https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative -and-toxic-pbt-chemicals-under

美國環保署(EPA) TSCA(Toxic Substances Control Act)毒性物質管理法第 6(h) 節 5

項具有 PBT 毒性的化學物質管理要求,

____V ___ 符合; _____ 不符合

公司名稱 Company name: <u>飛偉科技有限公司</u>

公司負責人 Company Responsible Person: <u>王俊偉</u>

立書人: 王俊偉

立書人職稱: 業務經理



不使用限用物質聲明書 Non-use of restricted substances statement



請填寫相關資訊

明实行们刚具可以	
Please fill in the relevant information :	
公司名稱 Company name:	(Hereitania)
公司負責人 Company Responsible Person: <u>王俊</u> 偉	但是而无于生
立書人 Declarant: <u>王俊</u> 偉	后路共
立書人職稱 Declarant's Title: <u>負責人</u>	
本聲明書生效日期 Effective Date of this Declaration: 2021/03/19_	
	(公司章 Company Stamp)
請勾選本聲明書適用範圍	
Please Select the Scope of this Declaration :	
■提供給研揚的全部產品 All Products provided to AAEON	偏而
──研揚料號 AAEON Part Number:	
	(負責人章 Responsible Person
	Chop)
──原廠料號 Manufacturer Part Number :	
(填寫公司名稱) 響應全球綠色環保法規或其他	2法律,保證如下事項:

_____ (Fill in Company name) Response to global green environmental protection regulations or other laws, guarantee the following matters:

┃一、產品符合歐盟 RoHS (2011/65/EU & (EU) 2015/863) 規範。 The product complies with EU RoHS (2011/65/EU & (EU) 2015/863) norms.

i. 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

ii. 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

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

Page 1/2

Focus • Agility • Competitiveness

不使用限用物質聲明書 Non-use of restricted substances statement



 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 compliance with the conflict metal parms, and confirm that your company.

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

■ 四、產品符合美國環保署 TSCA 毒性物質管理法第 6(h)節五項 PBT 毒性物質管理要求 This product complies with USA EPA Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) 5 Chemicals requirement under Section 6(h)

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

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

Dist, New Taipei City, 231, Taiwan, R.O.C.