

No. CANEC2120714002

Date: 12 Nov 2021

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SHENGYI TECHNOLOGY (SHAANXI) CO., LTD

NO.8 YONGCHANG ROAD, QINDU DISTRICT, XIANYANG CITY, SHAANXI PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : metal base copper clad laminate

SGS Job No. :	CP21-059115 - GZ
Model No. :	SAR15S
Client Ref. Info. :	SAR15
Date of Sample Received :	08 Nov 2021
Testing Period :	08 Nov 2021 - 12 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 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





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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-207140.002	Copper clad silvery laminate

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>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	7
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21207140	02	Date: 1	2 Nov 2021	Page 3 of 11
<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 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

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(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.

<u>Halogen</u>

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Phthalate

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

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			



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Test Report	No. CANEC212071	4002	Date: 12 Nov 2021	Page	4 of 11
<u>Test Item(s)</u>		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Di-n-octyl Phthalate (DNOP)		117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-40-0 68515-49-1	()	0.010	ND
Di-n-hexyl Phthalate (DnHP)		84-75-3	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C7 linear alkyl esters (DHNUP)	-11-branched and	68515-42-4	%(w/w)	0.010	ND
Bis(2-methoxyethyl) Phthalate (DME	EP)	117-82-8	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6 esters, C7-rich (DIHP)	-8-branched alkyl	71888-89-6	%(w/w)	0.010	ND
Diisopentyl Phthalate (DIPP)		605-50-5	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP))	776297-69-9	9 %(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dipen and linear (DPP)	tyl ester, branched	84777-06-0	%(w/w)	0.010	ND
Dipentyl Phthalates (DPENP/DnPP)		131-18-0	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dihex and linear(DHP)	yl ester branched	68515-50-4	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)		131-11-3	%(w/w)	0.003	ND

Notes :

(1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

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

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

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information



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No. CANEC2120714002

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	002
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)

Hexabromocyclododecane (HBCDD)

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

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD) and all major	25637-99-4	mg/kg	10	ND
diastereoisomers identified (α-HBCDD, β-HBCDD,	3194-55-6			
γ-HBCDD)	134237-50-6			
	134237-51-7			
	134237-52-8			



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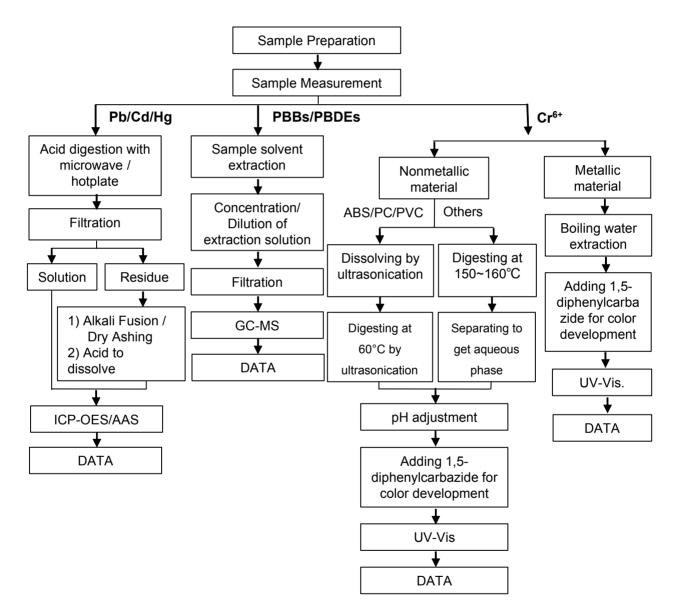
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr6+ and PBBs/PBDEs test method excluded).





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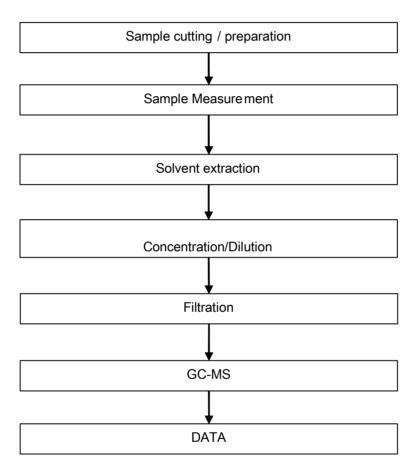
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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Qiong Liu





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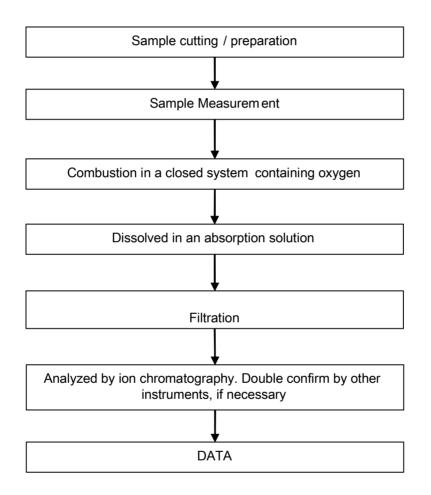
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Halogen Testing Flow Chart

1) Name of the person who made testing: Bruce Xiao

2) Name of the person in charge of testing: Bella Wang





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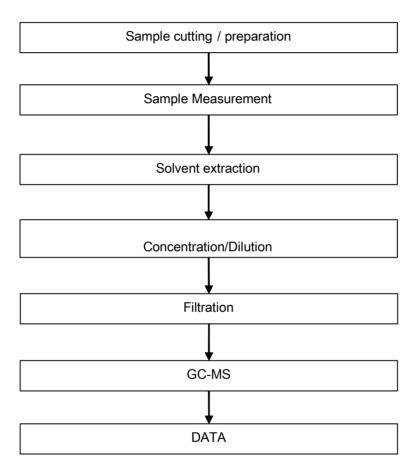
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HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Qiong Liu





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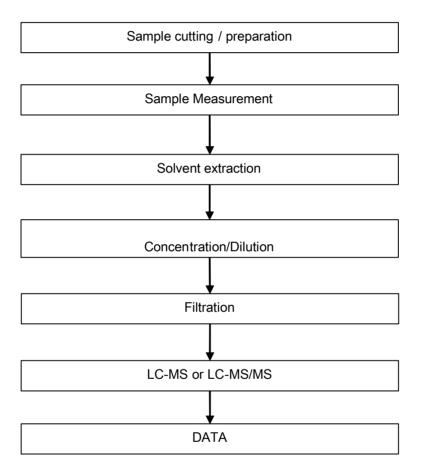
Date: 12 Nov 2021

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PFOA / PFOS Testing Flow Chart

1) Name of the person who made testing: Olivia Li

2) Name of the person in charge of testing: Qiong Liu





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中国・广州・经济技术开发区科学城科珠路198号	邮编: 510663
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Member of the SGS Group (SGS SA)

sgs.china@sgs.com

t (86-20) 82155555



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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

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