

USG046

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

Sample Description : PAPER
SGS Ref. No. : CAN17-080904
Sample Receiving Date : May 05, 2017
Test Performing Date : May 05, 2017 to May 16, 2017

For further details, please refer to the following page(s)

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.



Jack Yao
Approved signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.
Shunde Branch, China

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中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Result Summary

Test(s) Requested	Result(s)	Comments
Determination of Lead (Pb) & Cadmium (Cd) content(s) of the selected parts in the submitted sample(s) with reference to California Proposition 65.	PASS	/
Determination of Phthalates(DBP, BBP, DEHP, DINP, DNOP, DIDP, DnHP) contents of the selected parts in the submitted sample(s) with reference to California Proposition 65.	PASS	/
To determine Content(s) of Cadmium(Cd), Lead(Pb), Mercury(Hg), Hexavalent Chromium(CrVI), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) in the selected parts on the submitted sample(s) with reference to the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	PASS	/
To determine Total Lead(Pb), Cadmium(Cd), Mercury(Hg) and Hexavalent Chromium(CrVI) contents in the submitted sample(s) in accordance with European Council Directive 94/62/EC – Article 11 that effective June 2001 and its amendment.	PASS	/
To determine Total Lead, Cadmium, Mercury and Hexavalent Chromium contents in the submitted sample(s) in accordance with US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly CONEG).	PASS	/
To determine Dimethyl Fumarate(DMF) content in the submitted sample(s) with reference to Entry 61 of Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Commission Decision 2011/135/EU).	PASS	/
For further details, please refer to the following page(s)		



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-080904.001	Beige paper

Remarks :

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

CA65-Lead (Pb) & cadmium(Cd)

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Lead (Pb)	100	mg/kg	20	ND
Cadmium (Cd)	300	mg/kg	5	ND

Note :

- (1) The limit is referenced to the requirement as stated in the County of San Francisco Superior Court, Case No. CGC-09-489839/CGC-08-476552/CGC-11-508435/CGC-01-319336/CGC-10-505118/County of Santa Clara Case No 110 CV 172362/the Superior Court of the State of California Case No CIV 1003366/County of Alameda Superior Court, RG 10-530436/10-530300/RG-07-356892/RG-10-514803/County of Contra Costa Case No. CGC-09-485784/County of Marin Case No. CIV-10-00626/ Senate Bill No. 929 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).



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CA65- Phthalates

Test Method : With reference to CPSC-CH-C1001-09.3, analysis was performed by GC-MS

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	0.1	%(w/w)	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%(w/w)	0.005	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%(w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	0.1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	0.1	%(w/w)	0.005	ND

Note :

- (1) The limit of DBP, BBP, DEHP, DIDP and DnHP is referenced to the requirement stated in Alameda Superior Court, BG-07-350969. The limit for DINP is reference to the requirement as stated in County of Santa Clara Superior Court, 114CV267501, The limit of DNOP is 0.1% in accordance with the requirement of children product stated in Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

94/62/EC & TPCH

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	-	mg/kg	2	ND
Lead (Pb)	-	mg/kg	2	ND
Mercury (Hg)	-	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	mg/kg	8	ND
Total	100	mg/kg	-	ND

Remark : The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.



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

- Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4)With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
 (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND



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Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258

6

37,25

(2)The result of Hexavalent Chromium (Cr(VI)) is “ND” as the result of Chromium (Cr) is “ND”, and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
 (3)If the Chromium (Cr) content is greater than of Hexavalent Chromium (Cr(VI)) MDL, confirmation test of Hexavalent Chromium (Cr(VI)) is required.
 (4) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the

Rohs

Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.

medical

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

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(6) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before

July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.

(7) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.’ weight.

Entry 61 of Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Dimethyl Fumarate(DMF)

Test Method : SGS In-house method (GZTC CHEM-TOP-095), analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND

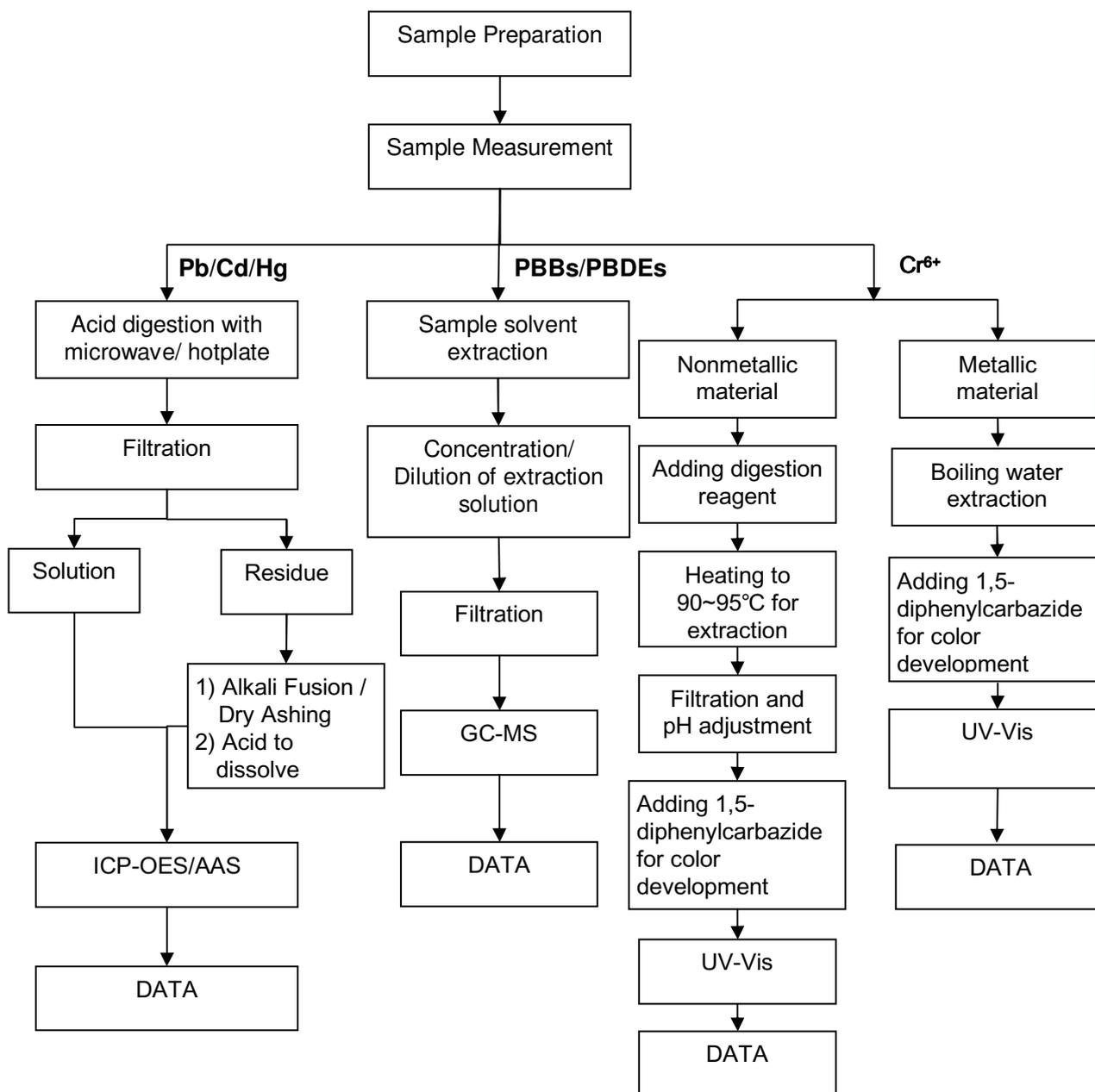


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ATTACHMENTS

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

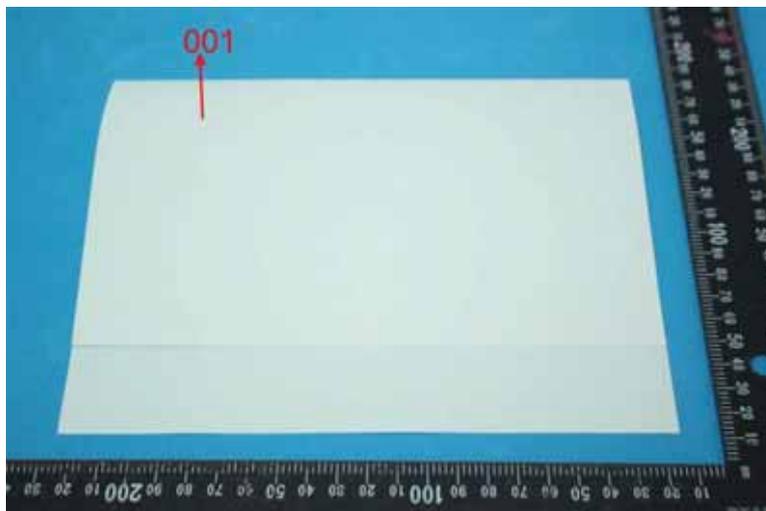
- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Photo Appendix:



Remark: This test was subcontracted to SGS other qualified subcontractor.

End of Report



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Shunde Branch Hainan

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