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JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD 78, CHANGSHAN RD, JIANGYIN, JIANGSU CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC1202600211 DATE: 2012/03/08

The following sample(s) was/were submitted and identified on behalf of the clients as: SOT-23

PRODUCT(INCLUDING SOT-23-3/5/6/8L TSOT-23-3/5/6/8L SOT-23-5L(FC))

SGS Job No.: SP12-005486 - SH

Date of Sample Received : 05 Mar 2012

Testing Period: 05 Mar 2012 - 08 Mar 2012

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).

Signed for and on behalf of SGS-CSTC Ltd.

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

1 SHA12-026002.011 Black solid with silvery pin (mix all*)

Remarks:

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

RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	<u>011</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	14
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	2	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

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<u>Limit</u>	<u>Unit</u>	MDL	<u>011</u>		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
-	mg/kg	5	ND		
	Limit	- mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg	Limit Unit MDL - mg/kg 5	Limit Unit MDL 011 - mg/kg 5 ND - mg/kg 5 ND	

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Notes:

Test Report

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

Phthalates

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

Test Item(s)	Unit	MDL	011
Dibutyl Phthalate (DBP)	%	0.003	ND
Benzylbutyl Phthalate (BBP)	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	ND
Diisononyl Phthalate (DINP)	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	%	0.003	ND
Diisodecyl Phthalate (DIDP)	%	0.010	ND
Di-n-hexyl Phthalate (DnHP)	%	0.003	ND
Diisobutyl Phthalate (DIBP)	%	0.003	ND

Notes :

- (1) DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
 - 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.
 - ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

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

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

Polynuclear Aromatic Hydrocarbons (PAH)

Test Method: With reference to ZEK 01.2-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	011
Sum of 16 PAH	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.2	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND

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Parameter	Category 1	Category 2	Category 3
	Material indented to be put in	Materials which are not	Materials which are not
	the mouth or material for toys	included in Category 1, with	included in Category 1 or 2,
	with normal skin contact for children aged < 36 months	predictable contact with the skin longer than 30 s.	with predictable skin contact up to 30 s (short-term skin
		(long-term skin contact)	contact).
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)***<="" td=""><td>1</td><td>20</td></mdl>	1	20
Sum of 16 PAH(US EPA) (mg/kg)**	<mdl (<0.2)***<="" td=""><td>10</td><td>200</td></mdl>	10	200

Remark: ** = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAH

*** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

 Test Item(s)
 Unit
 MDL
 0.11

 Tetrabromobisphenol A (TBBP-A)
 mg/kg
 10
 ND

Hexabromocyclododecane (HBCDD)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u> <u>Unit MDL 0.11</u>
Hexabromocyclododecane (HBCDD) mg/kg 10 ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

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Test Item(s)	Limit	Unit	MDL	011
Perfluorooctane Sulfonates (PFOS) and related	1,000	mg/kg	10	ND
Acid,Metal Salt and Amide				
Perfluorooctanoic Acid (PFOA)	-	mg/kg	10	ND

Notes:

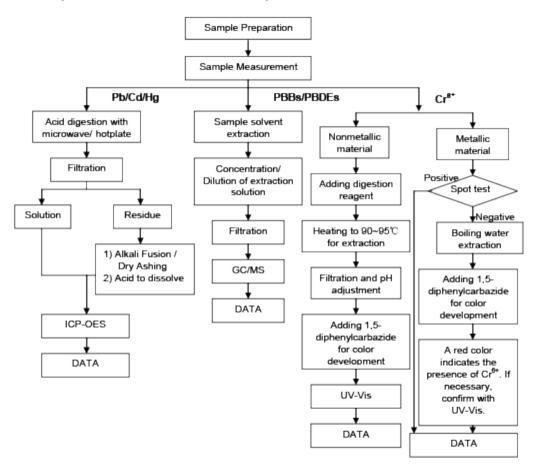
Max. limit specified by commission regulation (EU) No. 757/2010 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

Remark: "The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

ATTACHMENTS

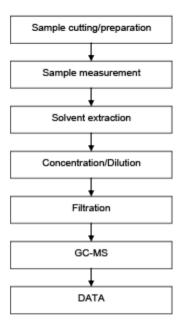
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Elim Lin
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded)



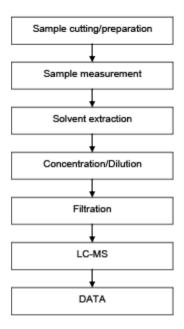
PAHs Testing Flow Chart

- 1) Name of the person who made testing: Jessie Huang
- 2) Name of the person in charge of testing: Elim Lin



PFOS/PFOA Testing Flow Chart

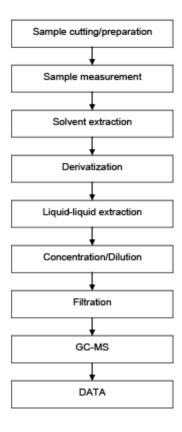
- 1) Name of the person who made testing: Judy Li
- 2) Name of the person in charge of testing: Linda Li



TBBP-A Testing Flow Chart

Date: 22 Mar 2012

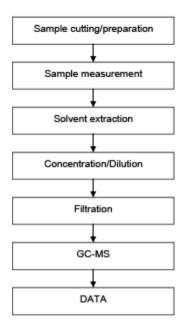
- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Elim Lin



HBCDD Testing Flow Chart

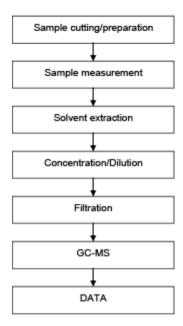
Date: 22 Mar 2012

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Elim Lin

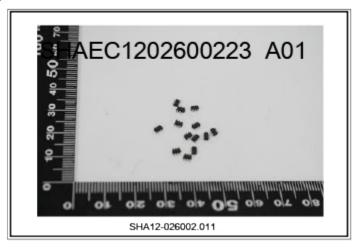


Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Elyn Yao
- 2) Name of the person in charge of testing: Rachel Zhang



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***