



## Test Report

No. SH9178391-1/CHEM

Date: Sep. 16, 2009

Page 1 of 6

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SH9178391/CHEM DATE: 2009/09/15

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

Sample Name : STATIC SHIELDING BAG  
SGS Ref No. : 10012097  
Buyer : LG

Sample Receiving Date : Sep.11, 2009  
Testing Period : Sep.11– 15, 2009

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives  
(2) To determine the Halogen- Fluorine, Chlorine, Bromine, Iodine Content in the submitted sample.

Test Method : (1-1) With reference to IEC 62321:2008 for Cadmium content.  
Analysis was performed by ICP-OES.  
(1-2) With reference to IEC 62321:2008 for Lead content.  
Analysis was performed by ICP-OES.  
(1-3) With reference to IEC 62321:2008 for Mercury content.  
Analysis was performed by ICP-OES.  
(1-4) With reference to IEC 62321:2008 for Hexavalent Chromium by Colorimetric Method.  
(1-5) With reference to IEC 62321:2008 for PBBs / PBDEs content.  
Analysis was performed by GC/MS.  
(2) With reference to EN 14582: 2007.  
(2-1) Determination of Fluorine by Ion Chromatograph (IC) method.  
(2-2) Determination of Chlorine by Ion Chromatograph (IC) method.  
(2-3) Determination of Bromine by Ion Chromatograph (IC) method.  
(2-4) Determination of Iodine by Ion Chromatograph (IC) method.

Test Results : Please refer to next pages

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Sandy Hao  
Lab Manager

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SGS-CSTC Standards Technical Services Co., Ltd. 3rd Building, No.889, Yishan Road, Shanghai, China 200233 T&E: (86-21) 61402553 F&E: (86-21) 64953679 www.cn.sgs.com  
Shanghai Branch of SGS-CSTC Chemical Laboratory 中国·上海·宜山路889号3号楼 邮编: 200233 HL: (86-21) 61402594 HL: (86-21) 54500353 e sgs.china@sgs.com

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Page 2 of 6

Test results by chemical method (Unit: mg/kg)

## (1) Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs / PBDEs Content

Test Item(s):	Method (refer to)	1	MDL	RoHS Limit
Cadmium(Cd)	(1-1)	ND	2	100
Lead (Pb)	(1-2)	ND	2	1000
Mercury (Hg)	(1-3)	ND	2	1000
Hexavalent Chromium (CrVI)	(1-4)	ND	2	1000
Sum of PBBs	(1-5)	ND	-	1000
Monobromobiphenyl		ND	5	-
Dibromobiphenyl		ND	5	-
Tribromobiphenyl		ND	5	-
Tetrabromobiphenyl		ND	5	-
Pentabromobiphenyl		ND	5	-
Hexabromobiphenyl		ND	5	-
Heptabromobiphenyl		ND	5	-
Octabromobiphenyl		ND	5	-
Nonabromobiphenyl		ND	5	-
Decabromobiphenyl		ND	5	-
Sum of PBDEs		ND	-	1000
Monobromodiphenyl ether		ND	5	-
Dibromodiphenyl ether		ND	5	-
Tribromodiphenyl ether		ND	5	-
Tetrabromodiphenyl ether		ND	5	-
Pentabromodiphenyl ether		ND	5	-
Hexabromodiphenyl ether		ND	5	-
Heptabromodiphenyl ether		ND	5	-
Octabromodiphenyl ether		ND	5	-
Nonabromodiphenyl ether		ND	5	-
Decabromodiphenyl ether##		ND	5	-

## (2) Halogen- Fluorine, Chlorine, Bromine, Iodine Content

Test Item(s):	Method (refer to)	1	MDL
Fluorine(F)	(2-1)	ND	50
Chlorine(Cl)	(2-2)	ND	50
Bromine(Br)	(2-3)	ND	50
Iodine(I)	(2-4)	ND	50

### Test Part Description:

1. Silver grey translucent plastic bag

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SGS-CTC Standards Technical Services Co., Ltd.  
Shanghai Branch, Water Chemical Laboratory

3rd Building, No.889, Yishan Road, Shanghai, China  
中国·上海·宜山路889号3号楼

200233  
邮编: 200233

TEL: (86-21) 61402553 TEL: (86-21) 64953679  
HL: (86-21) 61402594 HL: (86-21) 54500353

[www.cn.sgs.com](http://www.cn.sgs.com)  
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Page 3 of 6

### Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) ##=The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008.
- (5) “-” = Not Regulated
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

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SGS-CTO Standards Technical Services Co., Ltd.  
Shanghai Branch

3rd Building, No. 889, Yishan Road, Shanghai, China  
中国·上海·宜山路889号3号楼

200233

邮编: 200233

TEL: (86-21) 61402553 TEL: (86-21) 64953679

HL: (86-21) 61402594

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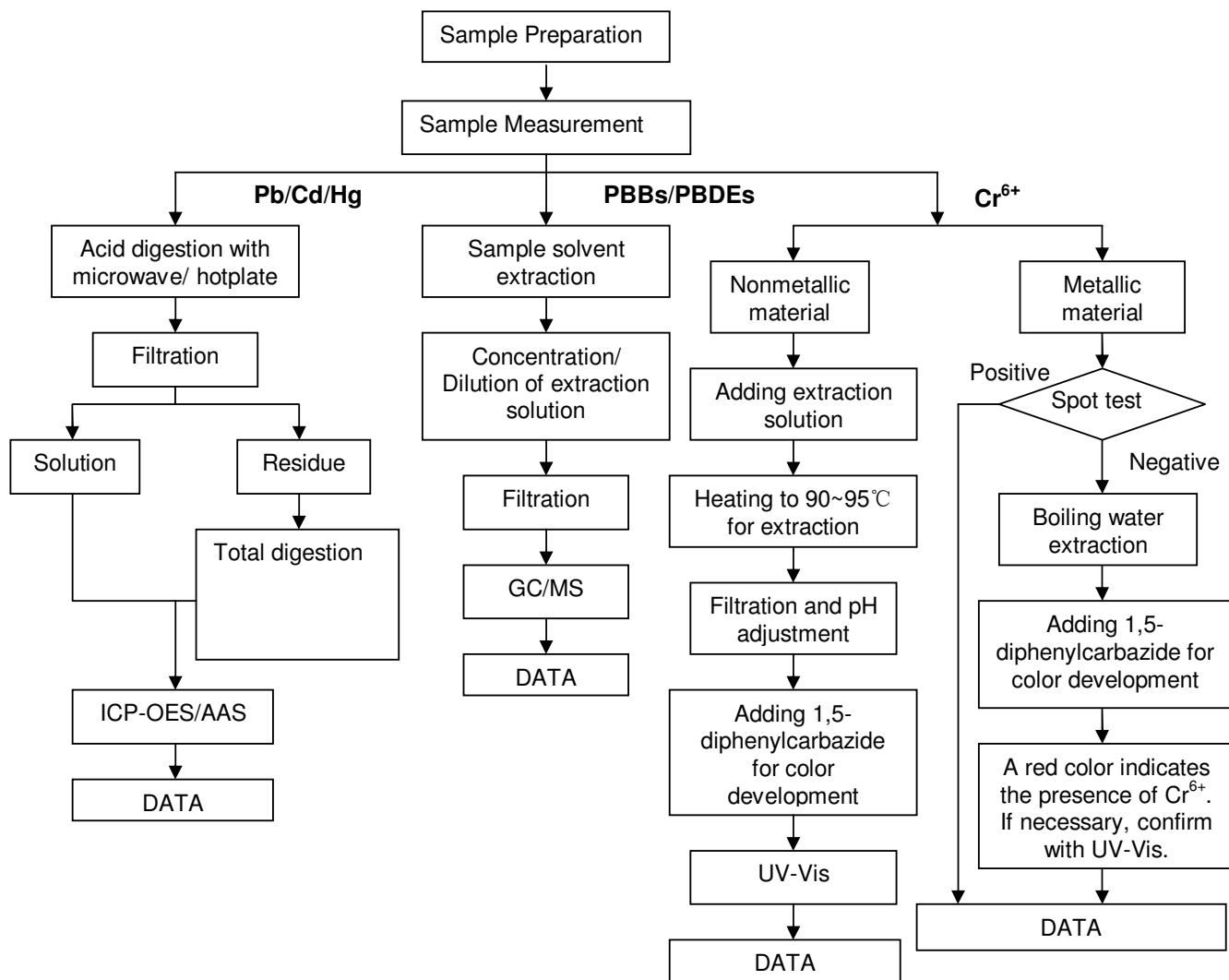
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### ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. ( $\text{Cr}^{6+}$  and PBBs/PBDEs test method excluded)



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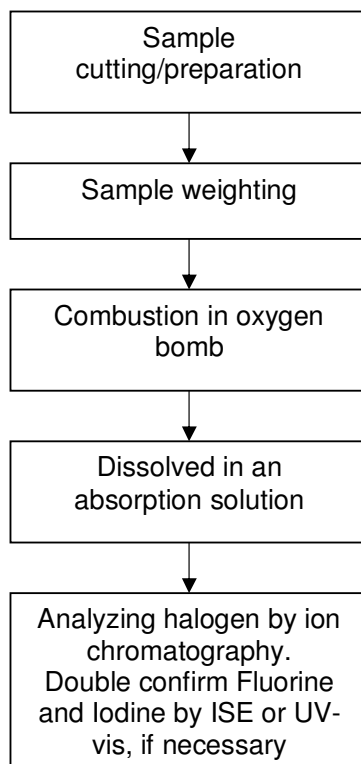
SGS-CTC Standards Technical Services Co., Ltd.  
Shanghai branch - Environmental Chemical Laboratory

3rd Building, No. 889, Yishan Road, Shanghai, China  
中国·上海·宜山路889号3号楼

200233  
邮编: 200233

TEL: (86-21) 61402553 TEL: (86-21) 64953679  
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[www.cn.sgs.com](http://www.cn.sgs.com)  
e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**Halogen Measurement Flowchart for sample**


Tested by : Daisy Gong  
 Checked by : Alex Jiang

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Page 6 of 6

Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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SGS-CSTC Standards Technical Services Co., Ltd.  
Shanghai Branch, General Chemical Laboratory

3rd Building, No. 889, Yishan Road, Shanghai, China  
中国·上海·宜山路889号3号楼

200233

邮编: 200233

TEL: (86-21) 61402553 TEL: (86-21) 64953679

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