

Test Report

No. SH8180430/ CHEM

Date: Mar. 11, 2011

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CHUANGYI ELECTRONIC (KUNSHAN) CO.,LTD
NO.367,YOUBI ROAD,ZHOUSHI TOWN,KUNSHAN CITY

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

Sample Name : PROTECTION FILM
SGS Ref No. : 11030776-5
Main substance : PE

Sample Receiving Date : Mar.07, 2011
Testing Period : Mar.07 - 11, 2011

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.
(3) To determine the PFOS (Perfluorooctane Sulfonates) content of the submitted samples.

Test 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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- Test Method : (1-1) With reference to IEC 62321/2nd CDV (111/95/CDV) for Cadmium content Analysis was performed by ICP.
 (1-2) With reference to IEC 62321/2nd CDV (111/95/CDV) for Lead content Analysis was performed by ICP.
 (1-3) With reference to IEC 62321/2nd CDV (111/95/CDV) for Mercury content Analysis was performed by ICP.
 (1-4) With reference to IEC 62321/2nd CDV (111/95/CDV) for Hexavalent Chromium by Colorimetric Method.
 (1-5) With reference to IEC 62321/2nd CDV (111/95/CDV) 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.
 (3) With reference to EPA 3550C: 2007. Analysis was performed by High Performance Liquid Chromatograph-Mass Spectrometer (HPLC-MS).

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

(1) Cadmium, Lead, Mercury, Hexavalent Chromium and 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	-

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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) 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

(3) PFOS (Perfluorooctane Sulfonates) content

Test Items	Test method (refer to)	1*	MDL
Perfluorooctane Sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	(3)	ND	10

Remark: Reference Information: Directive 2006/122/EC

- (i) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.

Test Part Description:
1. Transparent plastic tape with adhesive (mix all) Note:

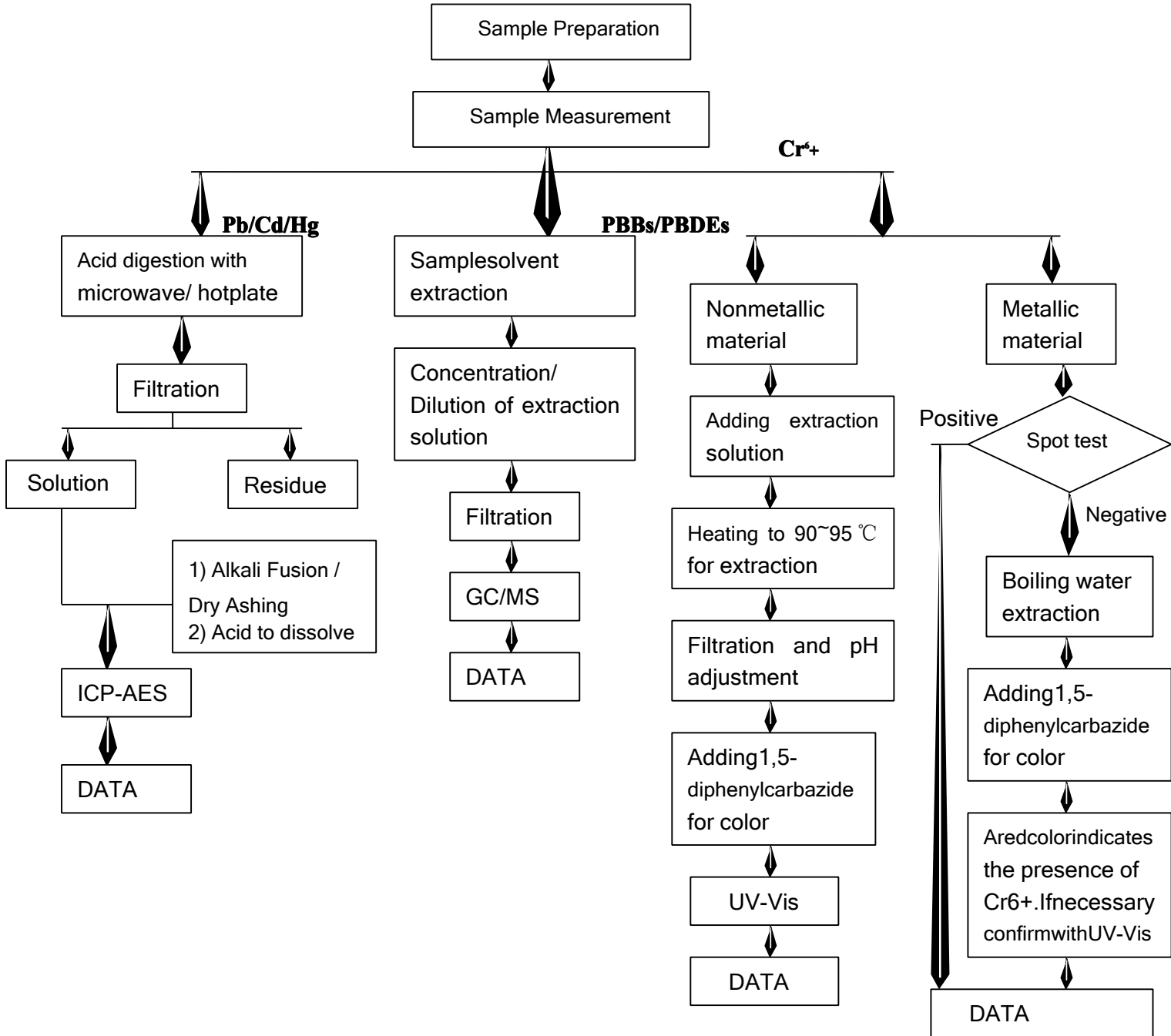
- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.
- (5) "-" = Not Regulated
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (7) * 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.

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ATTACHMENTS

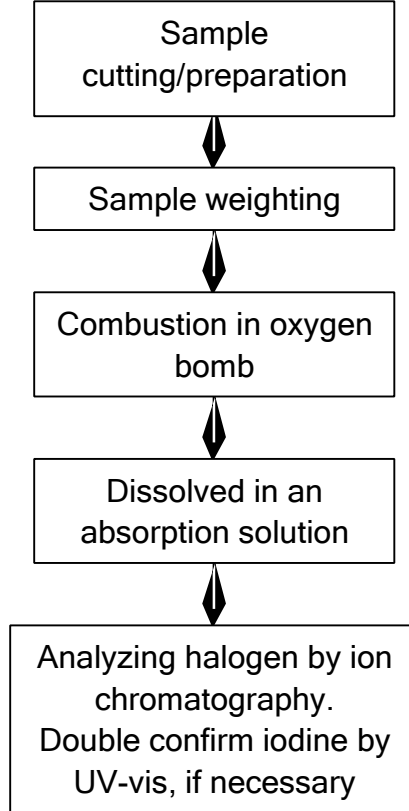
- 1) Name of the person who made measurement: Jeff Zhang/Chaven Lian/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen



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Halogen Measurement Flowchart for sample

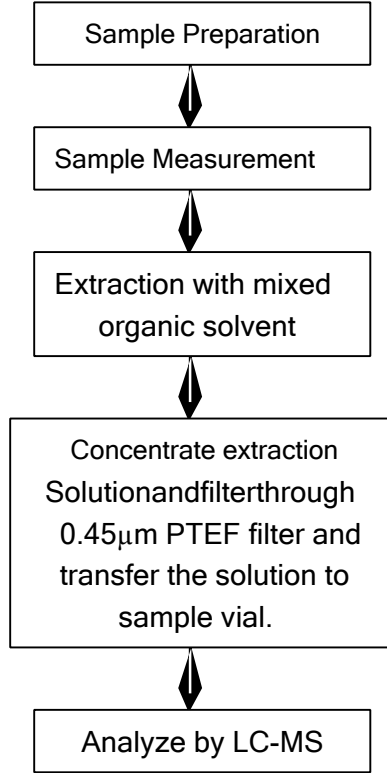


Tested by : Daisy Gong
 Checked by : Alex Jiang

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PFOS Measurement Flowchart for sample

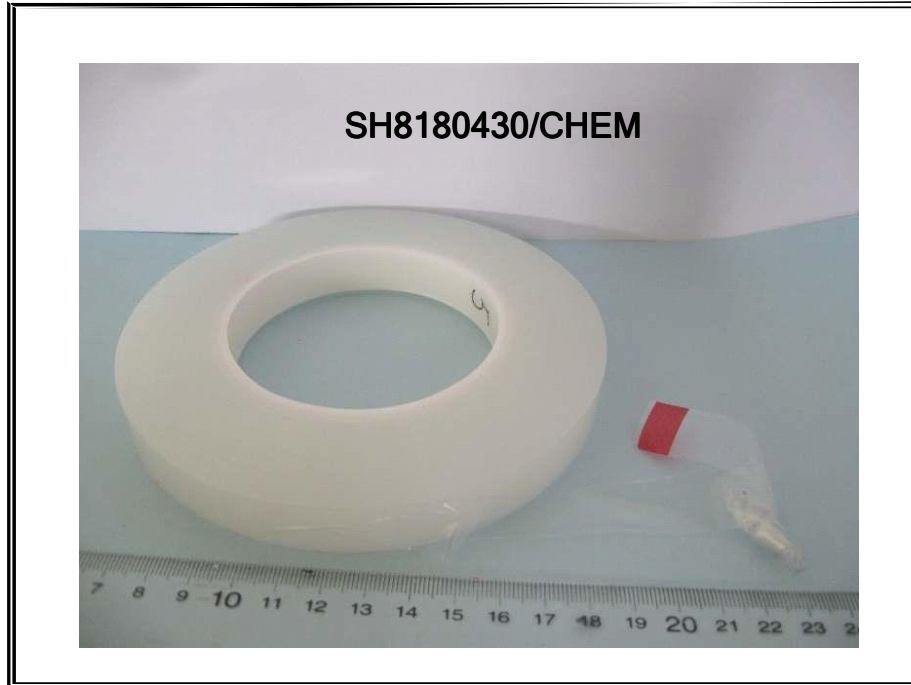


Tested by : Judy Li
 Checked by : Jenny Liu

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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