

Test Report

No. SH9208941/CHEM

Date: Oct. 30, 2009

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SHANGHAI HEIYU ADHESIVE TAPE CO., LTD.
4450# RD., JIADING DISTRICT, SHANGHAI, CHINA

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

Sample Name : POLYESTER LABEL MATERIAL
SGS Ref No. : 10052930-2
Part No. : HW##1(D)

Sample Receiving Date : Oct.26, 2009
Testing Period : Oct.26– 29, 2009

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
(2) To determine the PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) content of the submitted samples.
(3) To determine the Halogen- Fluorine, Chlorine, Bromine, Iodine Content in the submitted sample.

Test Method : (1) With reference to IEC 62321:2008
(1-1) Determination of Cadmium by ICP-OES.
(1-2) Determination of Lead by ICP-OES.
(1-3) Determination of Mercury by ICP-OES.
(1-4) Determination of Hexavalent Chromium by Colorimetric Method.
(1-5) Determination of PBBs and PBDEs by GC/MS.
(2) With reference to EPA 3550C: 2007.
Analysis was performed by High Performance Liquid Chromatograph-Mass Spectrometer (HPLC-MS).
(3) With reference to EN 14582: 2007.
(3-1) Determination of Fluorine by Ion Chromatograph (IC) method.
(3-2) Determination of Chlorine by Ion Chromatograph (IC) method.
(3-3) Determination of Bromine by Ion Chromatograph (IC) method.
(3-4) Determination of Iodine by Ion Chromatograph (IC) method.

Test Results : Please refer to next pages

Conclusion : (1) Based on the performed tests on submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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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) by alkaline extraction	(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) PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) Content

Test Items	Test method (refer to)	1	MDL
Perfluorooctane Sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	(2)	ND	10
Perfluorooctyl Acid (PFOA)		ND	10

PFOS Reference Information: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under 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.

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- (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 1µg /m² of the coated material.

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

(3) Halogen- Fluorine, Chlorine, Bromine, Iodine Content

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

Test Part Description:

1. White plastic film with adhesive part

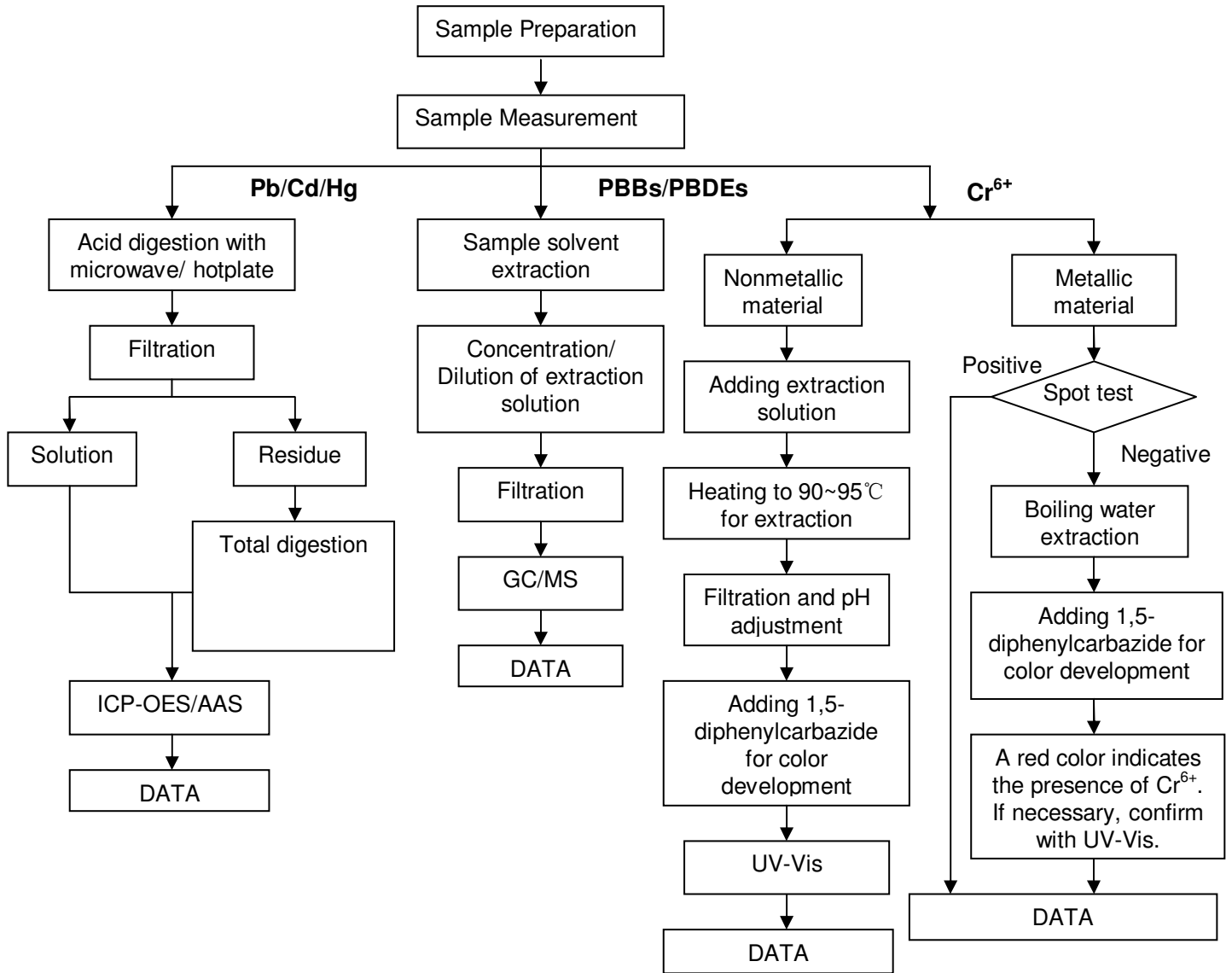
Note:

- (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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ATTACHMENTS

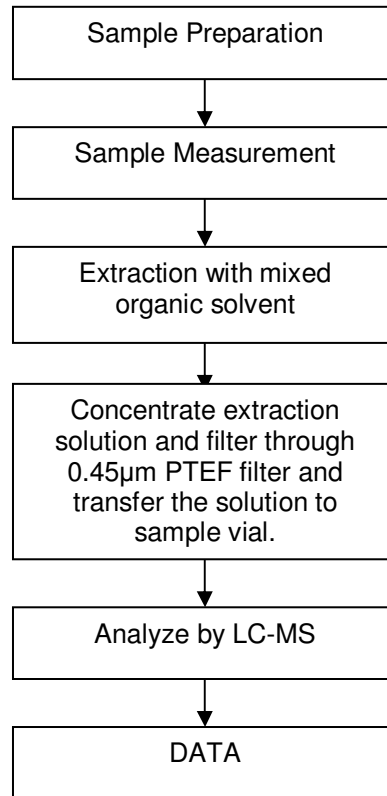
- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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PFOS/PFOA Measurement Flowchart for sample

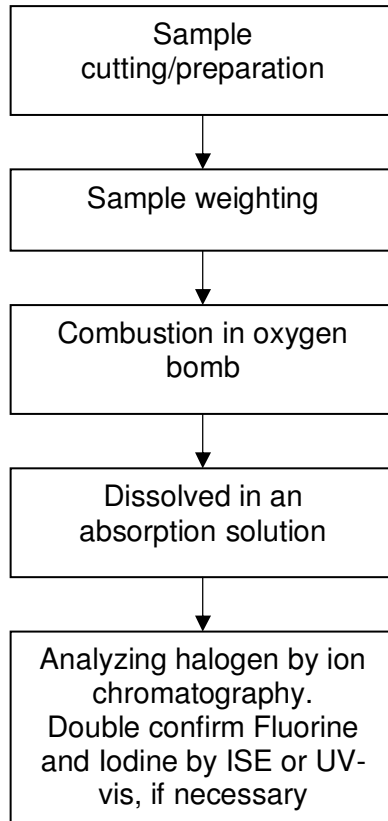


Tested by : Judy Li
 Checked by : Nancy Du

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Halogen Measurement Flowchart for sample

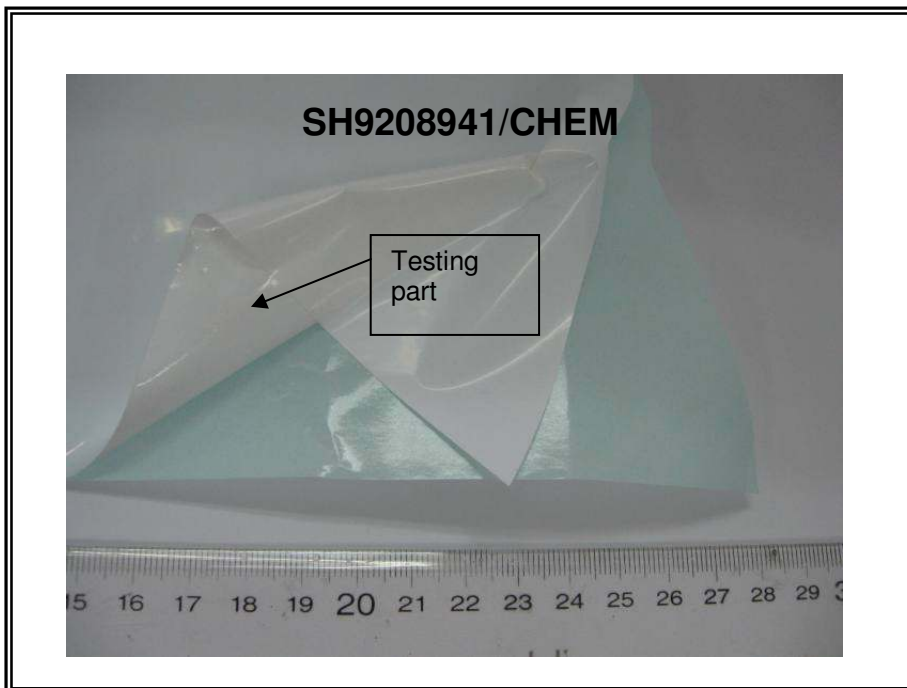


Tested by : Daisy Gong
 Checked by : Alex Jiang

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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