

Test Report

No. SH9055732/CHEM

Date: Apr. 8, 2009

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WISEPAC ACTIVE PACKAGING COMPONENTS CO., LTD
NO.3589 BEISONG ROAD, SHANGHAI

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

Sample Name : SILICA GEL DESICCANT
SGS Ref No. : 11725485-2
Main Substance : SiO₂

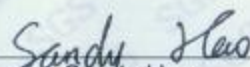
Sample Receiving Date : Apr.01, 2009
Testing Period : Apr.01-07, 2009

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) In accordance with the EU Directive 2009/251/EC, to determine Dimethyl fumarate(DMF) content in the submitted sample.
(4) To determine the Polynuclear Aromatic Hydrocarbons (PAHs)--Naphthalene content of the submitted sample.

Test 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.
(3)When tested as specified, Dimethyl fumarate(DMF) content of the submitted sample complies with the requirement of EU Directive 2009/251/EC

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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Test Method : (1) With reference to IEC 62321:2008
 (1-1) Determination of Cadmium by ICP.
 (1-2) Determination of Lead by ICP.
 (1-3) Determination of Mercury by ICP.
 (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) Solvent extraction.
 Analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS)
 (4) With reference to ZEK 01.2-08 of German ZLS and its amendments, Analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS).

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

(1) Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated biphenyls) and PBDEs (Polybrominated biphenyl ethers) 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		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	(1-5)	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	-

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Note: The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

(2) PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) content

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

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.

(3) Dimethyl fumarate (DMF) content

<u>Test Item(s):</u>	<u>Method (refer to)</u>	<u>1</u>	<u>MDL</u>	<u>Recommended Max. Limit</u>
Dimethyl fumarate (DMF)	(3)	ND	0.1	0.1

(4) PAHs (Polynuclear Aromatic Hydrocarbons) content

<u>Test Item(s)</u>	<u>Method (refer to)</u>	<u>1</u>	<u>MDL</u>
Naphthalene	(4)	ND	0.2

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Test Part Description:

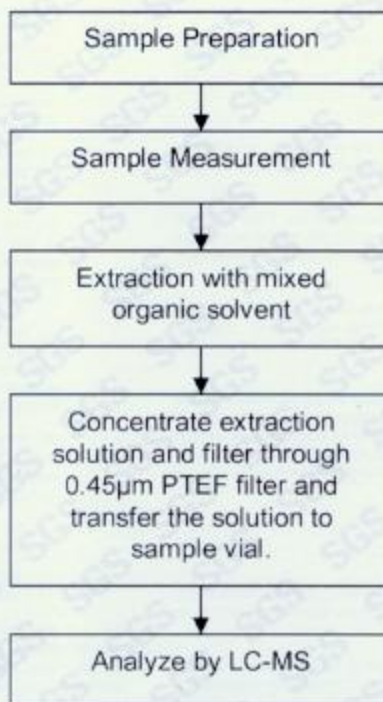
1. Transparent solid pellet

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

ATTACHMENTS

PFOS/PFOA Measurement Flowchart for sample

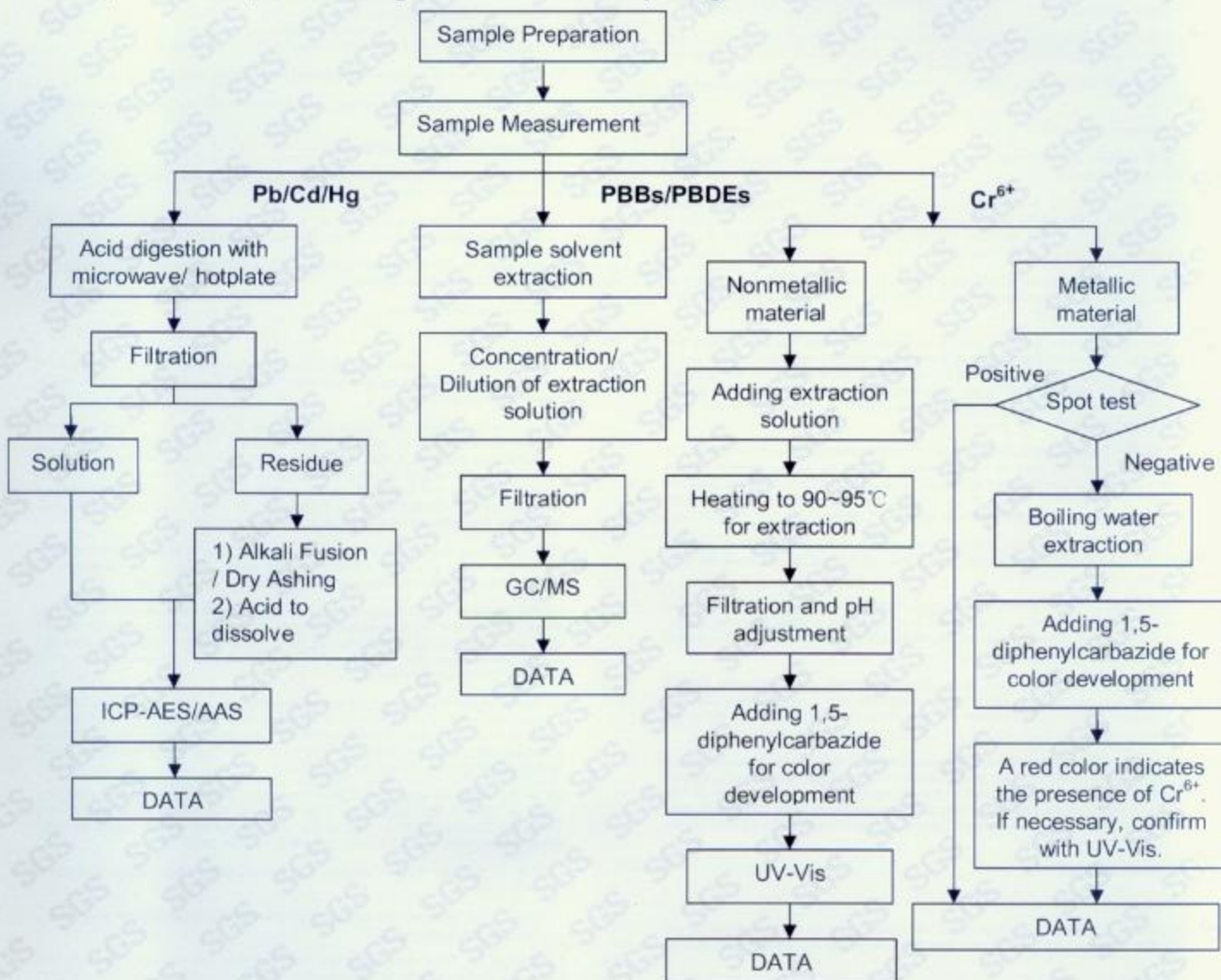


Tested by : Judy Li
 Checked by : Jenny Liu

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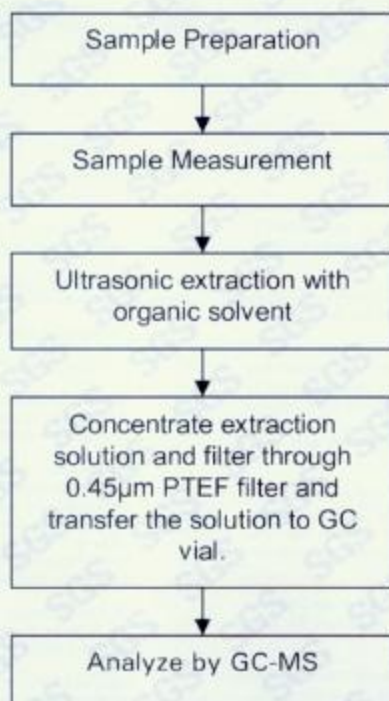


- 1) Name of the person who made measurement: Jeff Zhang/Chaven Lian/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen



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PAHs Measurement Flowchart for sample



Tested by : Jessy Huang
Checked by : Phoebe Shen

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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