

Test Report

No. HKGEC1100792301

Date: 21 Sep 2011

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DIC TRADING (HK) LIMITED

ROOM 1304, 13/F., EAST OCEAN CENTRE
98 GRANVILLE ROAD
TSIM SHA TSUI EAST
KOWLOON HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as : MIXTURE OF PPS, GLASS FIBER, MINERAL FILLER AND SMALL AMOUNT OF ADDITIVES

SGS Job No. : 1526083 - HK

Colour : NATURAL

Item No. : FZ-1130, FZ1130-D5, FZ-1140, FZ-1140-A1, FZ-1140-B2,
FZ-1140-D5, FZ-1140-D9, FZ-1140-R5, FZ-4020-A1,
FZ-2100, FZ-2130, FZ-2140, FZ-2140-B2, FZ-2140-D9
FZ-3600, FZ-3600-D5, FZ-3600-R5, FZ-3360, FZ-6600,
FZ-6600-B2, FZ-6600-D5, FZ-6600-R1, FZL-4033

Manufacturer : DIC CORPORATION

Country of Origin : JAPAN & MALAYSIA

Date of Sample Received : 14 Sep 2011

Testing Period : 14 Sep 2011 - 21 Sep 2011

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).

Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS Hong Kong Limited.



Chow Fuk Fung
Chemist

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	HKG11-007923.001	Brown Plastic Pellet

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/AAS.
- (2) Determination of Lead by ICP-OES/AAS.
- (3) Determination of Mercury by ICP-OES/AAS.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-vis Spectrophotometer.
- (5) Determination of PBB / PBDE content by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	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

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

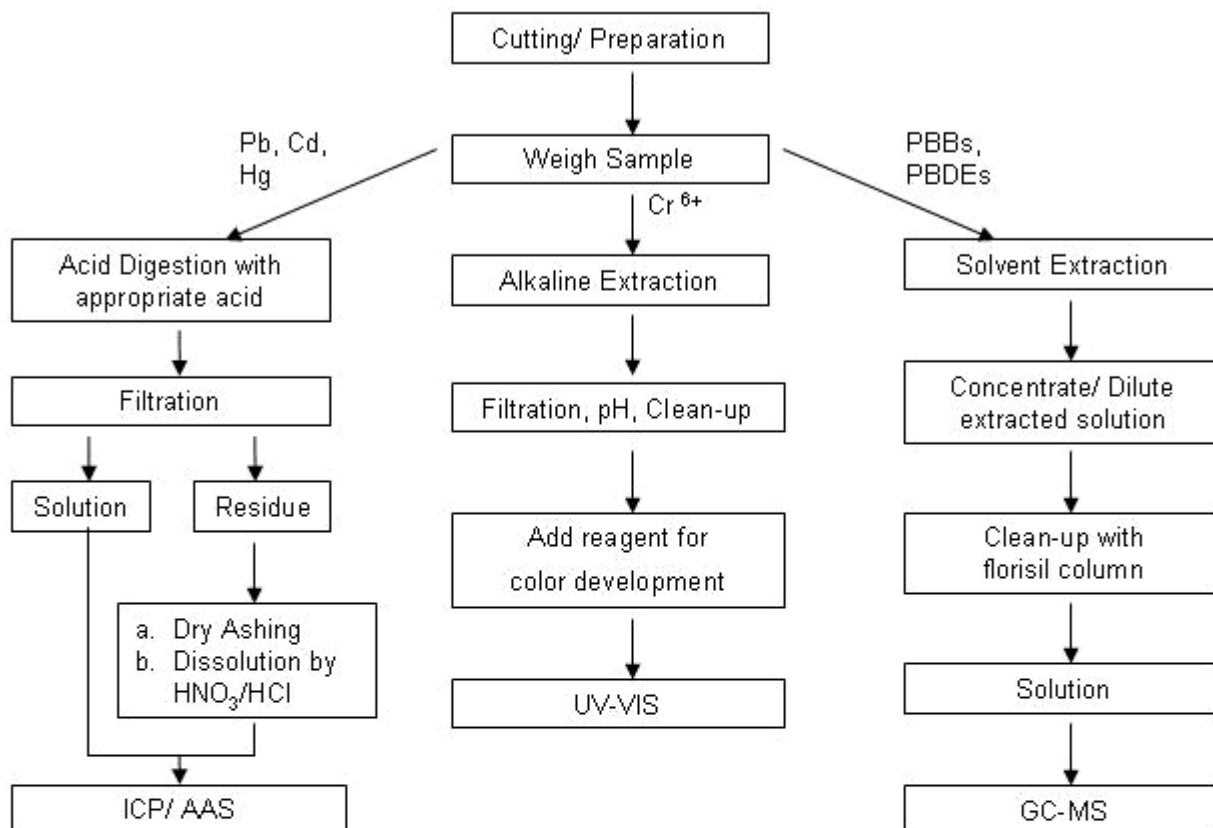
Notes :

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

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Flowchart:



- Note : 1) Boiling water test method was also performed for the analysis of Cr (VI) in metal sample.
 2) The polymeric samples were dissolved totally by pre-conditioning method according to above flow chat for Cd, Pb and Hg contents analysis.

Operator : Chiu Kan Yuen/ Tang Koon Pang (Acid digestion)
Chiu Kan Yuen (Dry Ashing)
Cheng Chi Yuen, Vincent (Hexavalent Chromium)
Lau Chung Yin, Eric (PBBs and PBDEs)

Section Chief : Thu Hung Yat, Rodney

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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