

Test Report No. 2607713

Date : 13-Dec-2013

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**Client : Thai Polyacetal Co.,Ltd.
622 Emporium Tower, Floor 24/4-7, Sukhumvit Road,
Kwang Klongton, Khet Klongtoey Bangkok 10110 Thailand**

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

Sample Description : Polyacetal resin
 Sample No. : 2688014
 Sample Condition : Sample is contained in a plastic bag.
 Quantity Submitted : 1 bag
 Part No. : F20-03
 Batch/Lot No. : Natural
 Manufacturer/Vendor : Thai Polyacetal Co., Ltd.
 Sample Receiving Date : 11-Dec-2013
 Testing Period : 11-Dec-2013 to 13-Dec-2013
 Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II ; recasting 2002/95/EC
 Test Method : (1) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Lead content, Analyzed by ICP-OES.
 (2) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Cadmium content, Analyzed by ICP-OES.
 (3) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Mercury content, Analyzed by ICP-OES.
 (4) In-house method LBTY-07399 with reference to IEC 62321 Ed.1:2008 for Hexavalent Chromium by Alkaline Digestion / Colorimetric Method, Analyzed by UV-Vis Spectrometry.
 (5) In-house method Lbfd-08466 with reference to IEC 62321 Ed.1:2008 for PBB/PBDE content, Analyzed by GC/MS.
 Test Results : Please refer to next page.

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 (Thailand) Limited**



**Pornpana Lirathpong
Hardlines Testing Manager**

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	2	1000

Test Part Description
Result (1) white plastic

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Test done on client submitted sample

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description
Result (1) white plastic

Note :

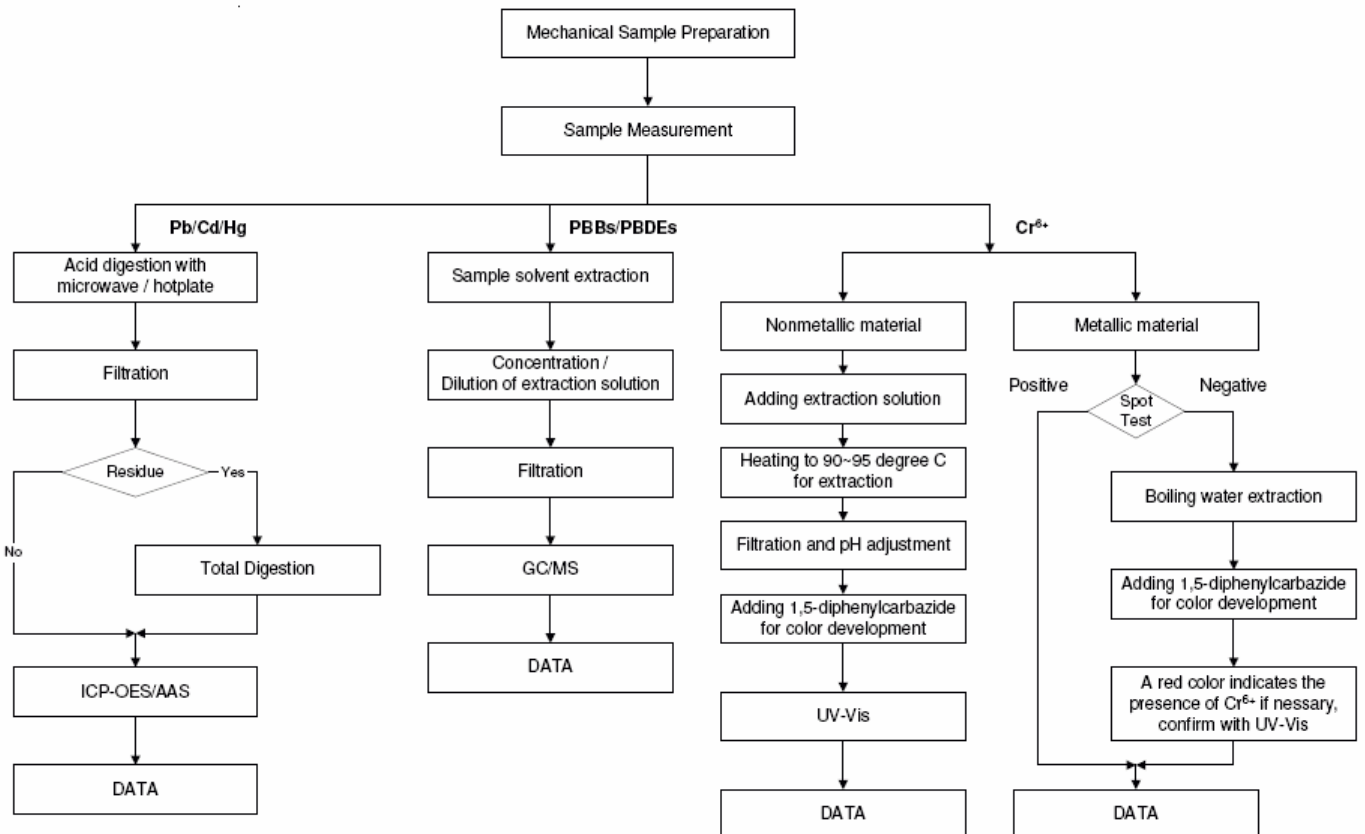
- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) "-" = Not regulated
- (e) Test done on client submitted sample

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Flow Chart for IEC 62321 : Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing

1. Operator : Siam Polarwut
2. Section Chief : Patcharee Treepornchareon
3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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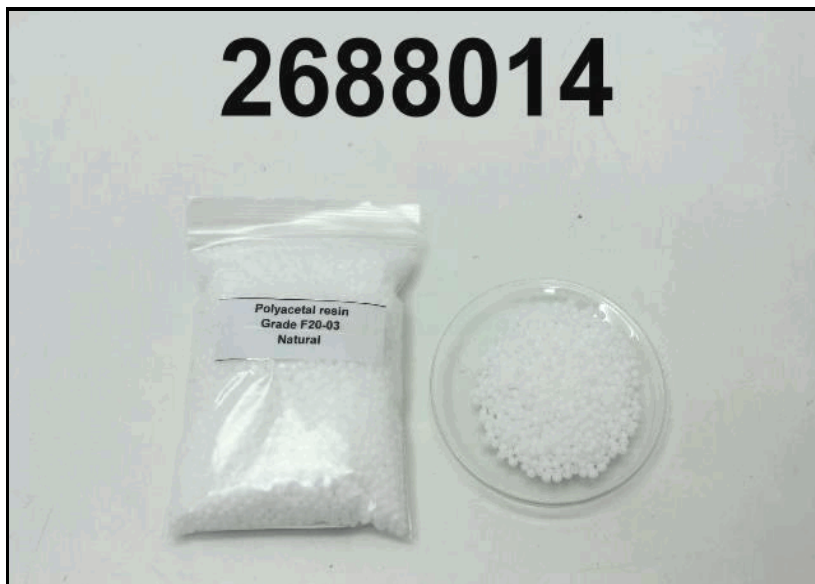
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SAMPLE/ATTACHMENT PICTURE



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

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