

Test Report No. 2252550

Date : 14-Jun-2012

Page 1 of 6

Client : CGA Co.,Ltd.
1213/298 Ladpraw Road
Phlaphla ,Wangthonglang Bangkok 10310 Thailand

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

Sample Description : VCI CGA MASTERBATCH
 Sample No. : 2323709
 Sample Condition : Sample is contained in plastic bag.
 Quantity Submitted : 185 g
 Part No. : VCI-CGA2100

Sample Receiving Date : 9-Jun-2012
 Testing Period : 09-Jun-2012 to 14-Jun-2012

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

1954263

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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) cream masterbatch

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) cream masterbatch

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

1954263

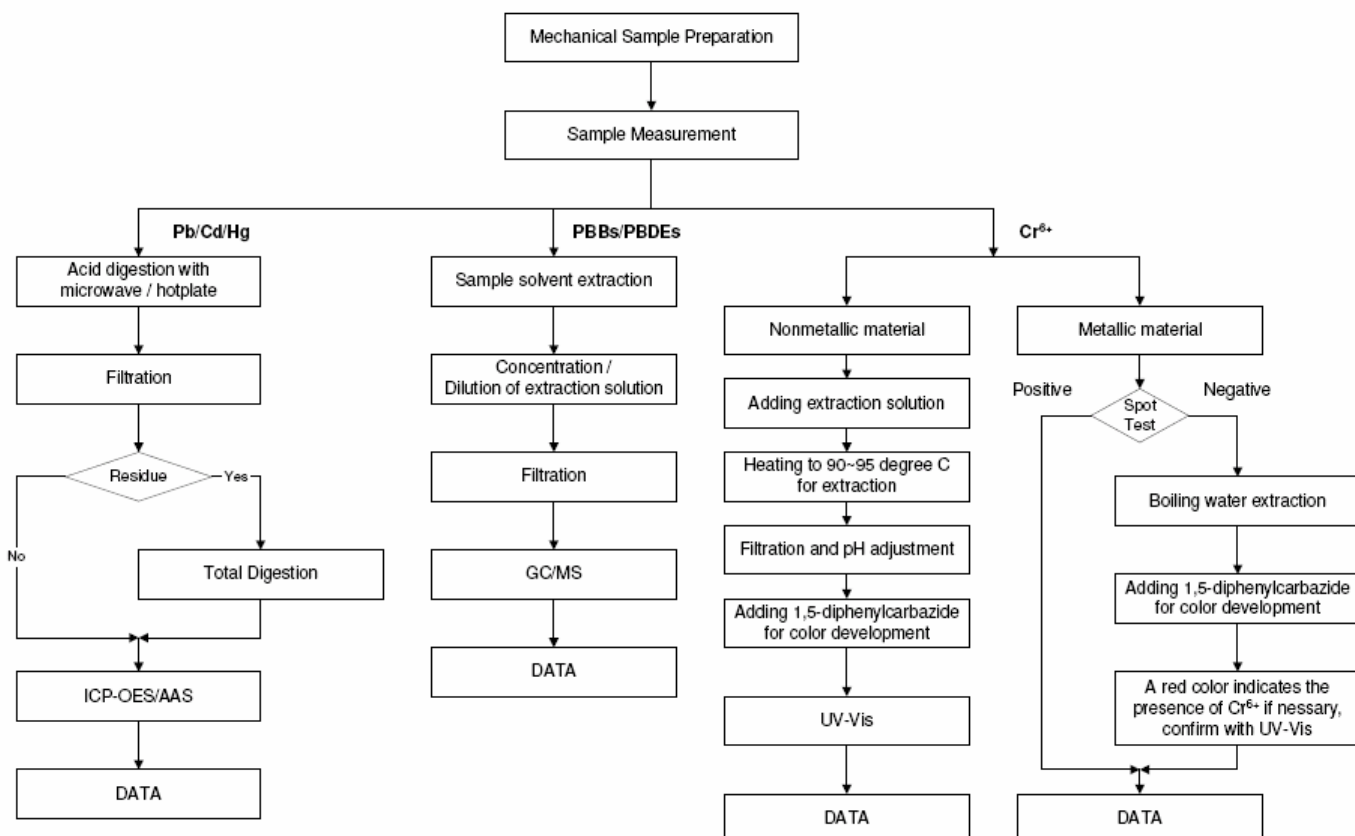
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Flow Chart for IEC 62321 : Pb/Cd/Cr⁶⁺/PBBs/PBDEs Testing

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



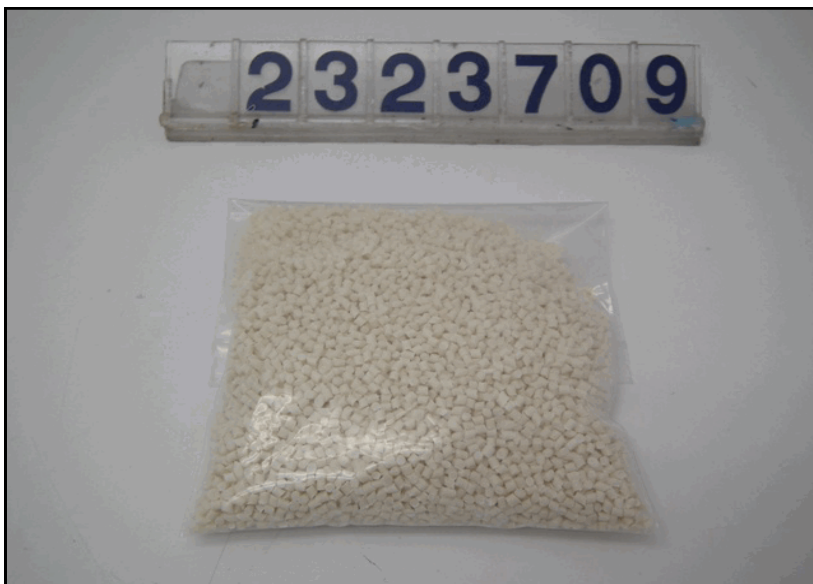
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SAMPLE/ATTACHMENT PICTURE



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

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