

Test Report

1595786

Date : 13-Feb-2009

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**Client : IRPC Public Company Limited
14 th Floor,Suntowers B, 123 Vibhavadi Rangsit Rd.,
Chatuchak Bangkok 10900 Thailand**

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

Sample Description : Polystyrene Grade GP150
 Sample No. : 1627212
 Sample Condition : As per attached photograph
 Lot No. : 0901218
 Manufacturer/Vendor : Thai ABS
 Country of Origin : Thailand
 Country of Destination : Thailand
 Sample Receiving Date : 10-Feb-2009
 Testing Period : 10-Feb-2009 to 13-Feb-2009

Test Requested : In accordance with the RoHS Directive 2002/95/EC and its amendment directives

Test Method : (1) With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-OES.
 (2) With reference to BS EN1122: 2001, Method B for Cadmium Content. Analysis was performed by ICP-OES.
 (3) With reference to EPA Method 3052 for Mercury Content. Analysis was performed by ICP-OES.
 (4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
 (5) With reference to USEPA 3540C for PBB/PBDE content. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

CONCLUSION

Based on the performed tests on submitted samples, the result comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

**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)	(4)	n.d.	2	1000
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)

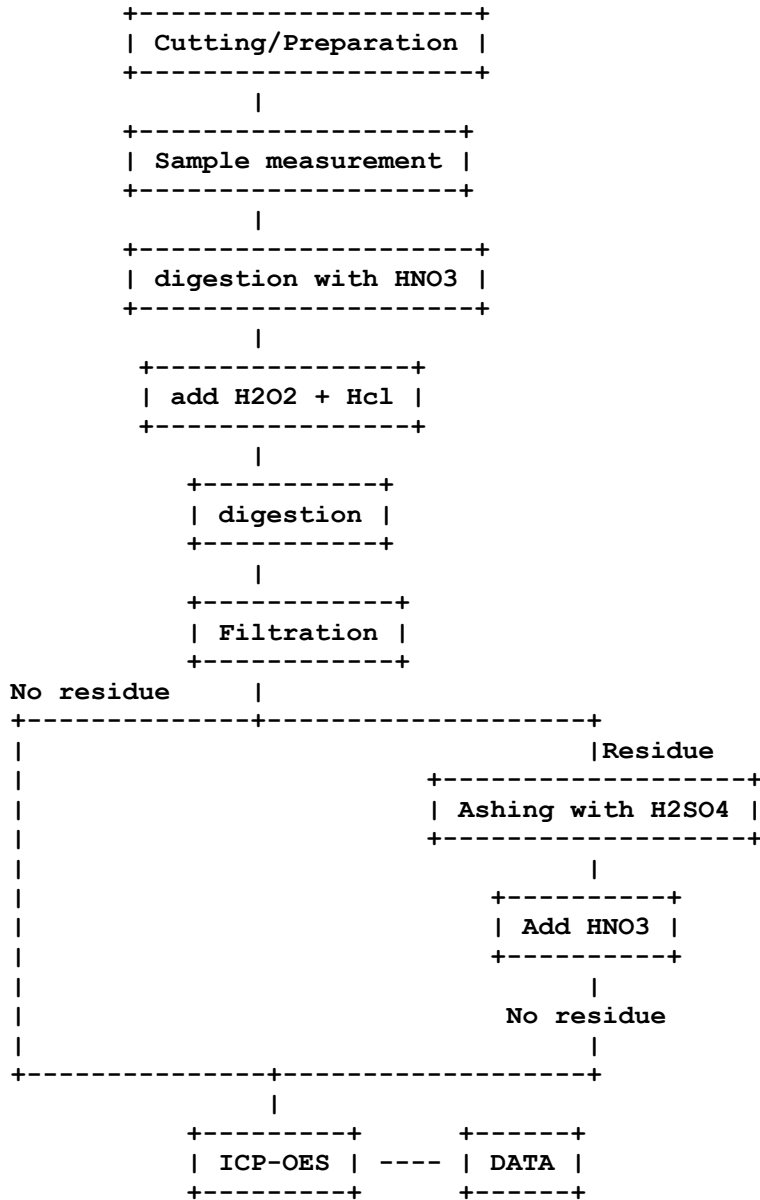
Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl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

Test Part Description
Result (1) clear plastic

Note :

- (1) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (2) n.d. = Not Detected
- (3) MDL = Method Detection Limit
- (4) The exemption of DecaBDE in polymeric application according 2005/17/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
- (5) "-" = Not regulated

Flow chart of digestion (EPA 3050B for Pb)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

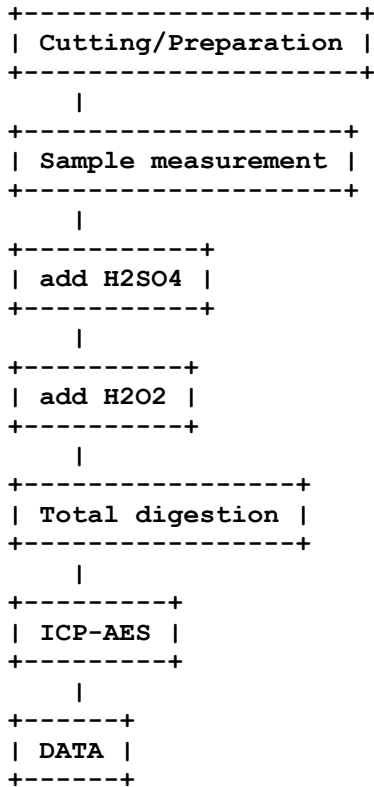
Operator : Siam Polarwut
 Section Chief : Laddawan Uranpitr

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Flow chart of digestion (EN 1122 Method B for Cd)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut
 Section Chief : Laddawan Uranpitr

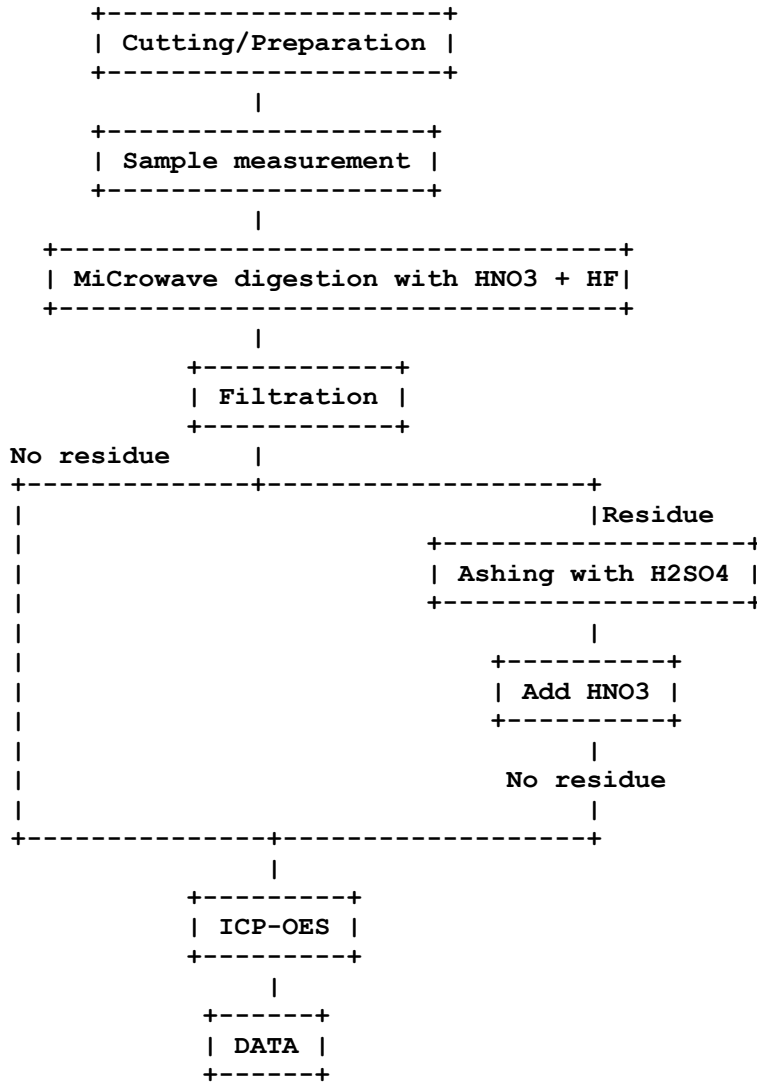
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Flow chart of digestion (EPA 3052 for Hg)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Wanwisa Saekow

Section Chief : Laddawan Uranpitr

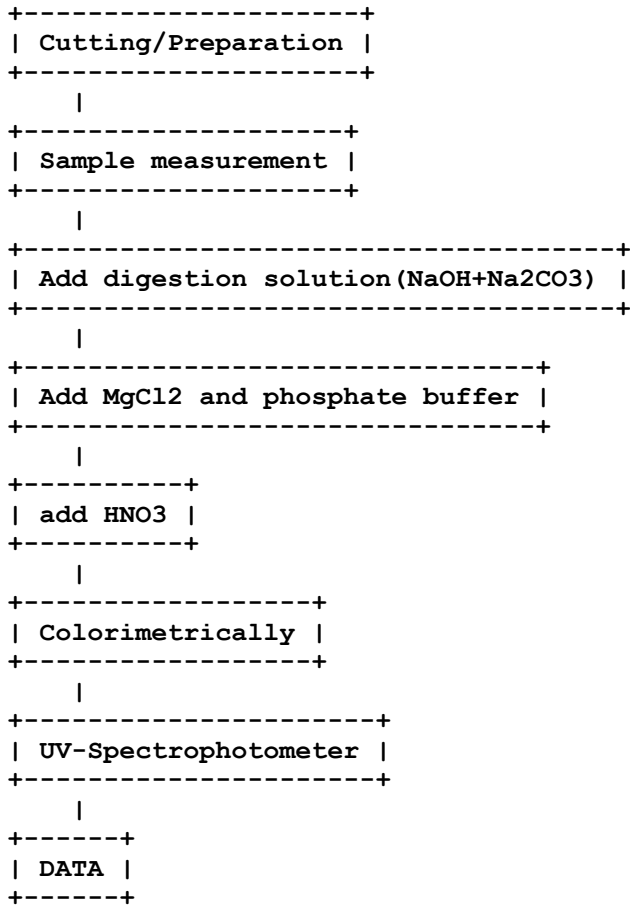
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Flow chart of digestion (EPA 3060A,7196A for Cr(VI))



Operator : Wanwisa Saekow
 Section Chief : Laddawan Uranpitr

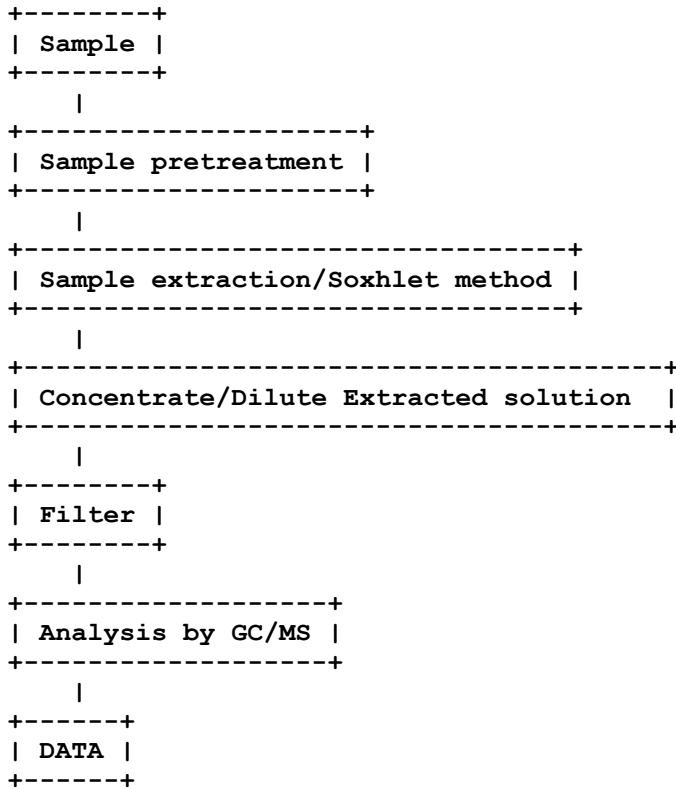
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Flow chart of PBBs/PBDEs



Operator : Prapapan Puengpatiparn
Section Chief : Sul kifli Mama

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SAMPLE/ATTACHMENT PICTURE



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

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