

Test Report No. 2201399

Date : 29-Mar-2012

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Client : Thermaflex Insulation Asia Co.,Ltd.
10 Moo 12, Nong-prue,
Banglamung, Chonburi 20260 Thailand

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

Sample Description : ThermaSmart
 Sample No. : 2264262
 Sample Condition : Sample is contained in plastic bag.
 Quantity Submitted : 6 pcs
 Sample Receiving Date : 21-Mar-2012
 Testing Period : 21-Mar-2012 to 29-Mar-2012
 Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II ; recasting 2002/95/EC
 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 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)	(4)	n.d.	2	1000

Test Part Description
Result (1) black sponge

Note :

- (1) mg/kg = ppm
- (2) n.d. = Not Detected
- (3) MDL = Method Detection Limit
- (4) 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) black sponge

Note :

- (1) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (2) n.d. = Not Detected
- (3) MDL = Method Detection Limit
- (4) "-" = Not regulated
- (5) Test done on client submitted sample

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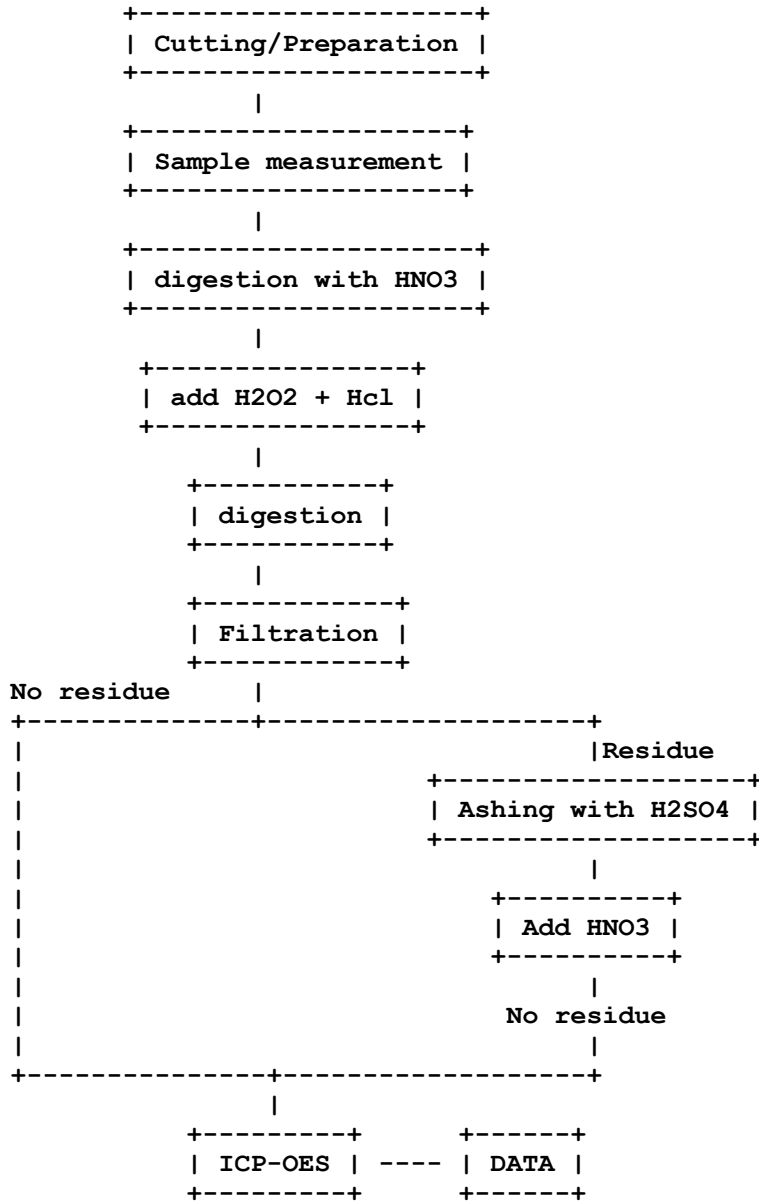
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Flow chart of digestion (EPA 3050B for Pb)



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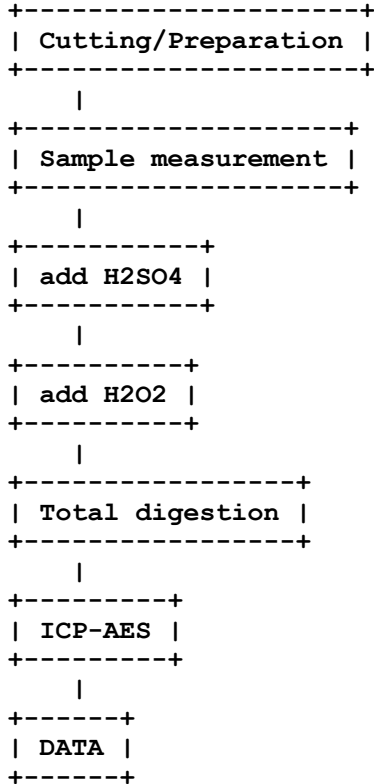
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Flow chart of digestion (EN 1122 Method B for Cd)



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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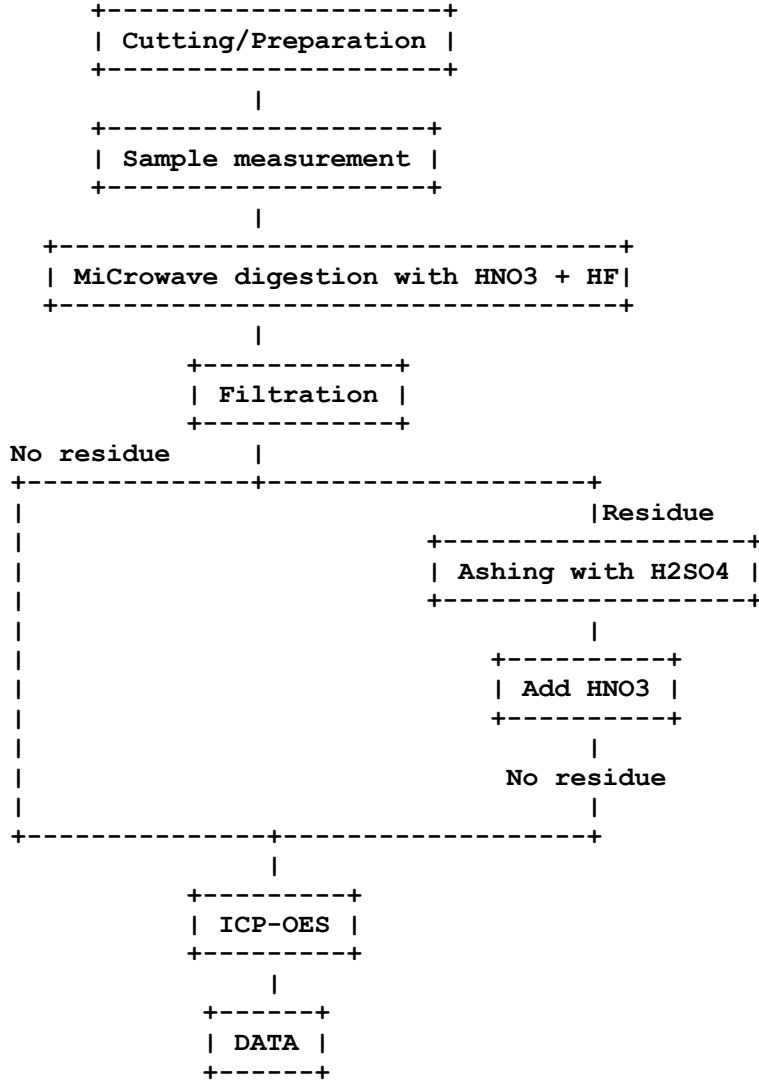
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Flow chart of digestion (EPA 3052 for Hg)



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

Operator : Siam Polarwut

Section Chief : Laddawan Uranpitr

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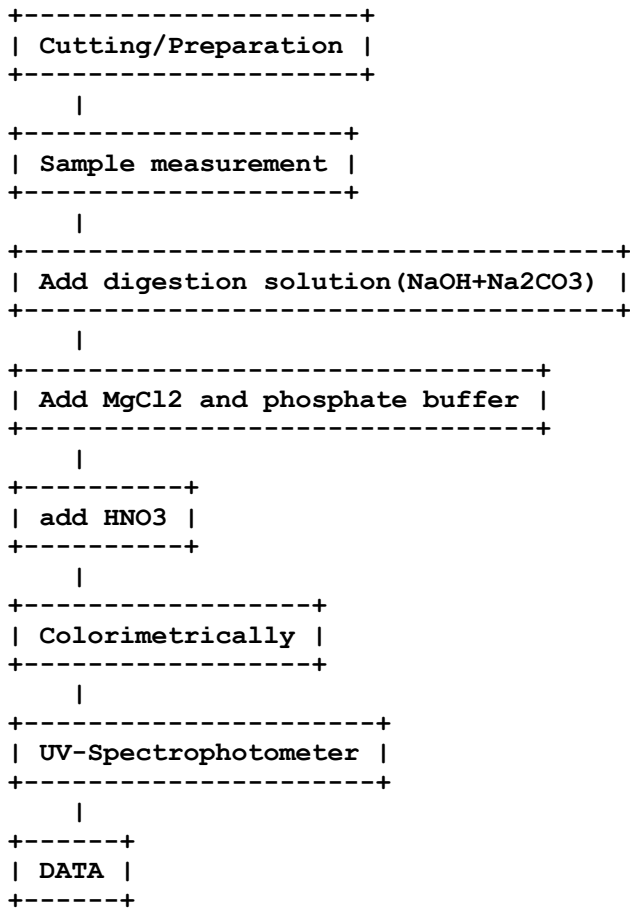
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Flow chart of digestion (EPA 3060A,7196A for Cr(VI))



Operator : Siam Polarwut
Section Chief : Laddawan Uranpitr

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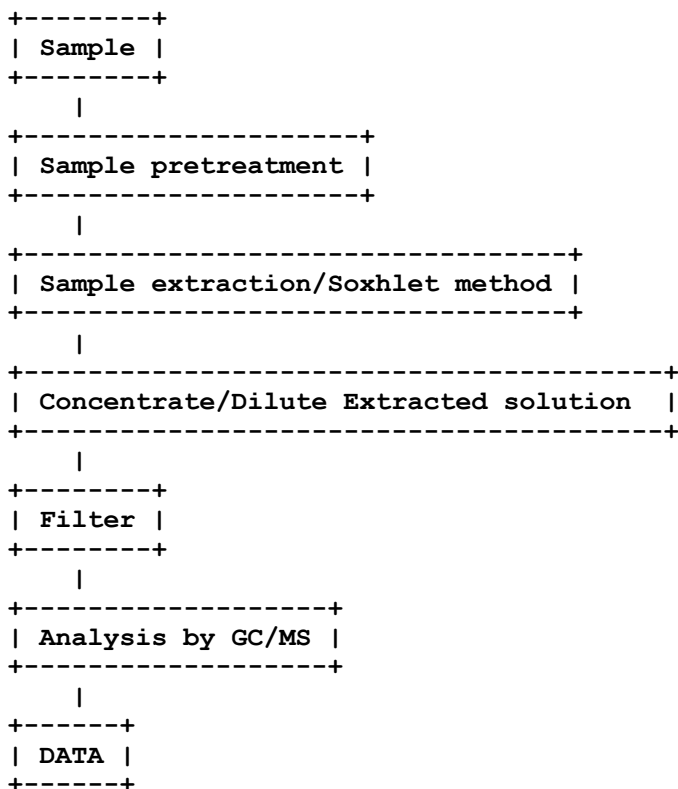
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Flow chart of PBBs/PBDEs



Operator : Rattaya Khantama
 Section Chief : Waranchote Pananuraksa

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SAMPLE/ATTACHMENT PICTURE



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

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