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SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. NO. 1 SENOKO SOUTH ROAD, SINGAPORE 758069

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

Sample Description	: DIE ATTACHED PASTE
Style/Item No.	: CRM-1076NS
Sample Receiving Date	: 2016/08/26
Testing Period	: 2016/08/26 TO 2016/09/01
Sample Submitted By	: SUMITOMO BAKELITE SINGAPORE PTE CO., LTD.

Test Requested

- As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to (1) determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.
- Please refer to next pages for the other item(s). (2)
- Test Result(s) : Please refer to next page(s).

5

Conclusion

(1) Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.



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Test Result(s)

PART NAME No.1

: SILVER GRAY DIE ATTACHED PASTE

Test Item(s)	Unit	Method	MDL	Result	Limit
	Unit			No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Sum of PBBs			-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl	ma/ka		5	n.d.	-
Pentabromobiphenyl		With reference to IEC 62321-6: 2015 - and performed by GC/MS.	5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-

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Test Item(s)	Unit	Method	MDL	Result	Limit
			WDL	No.1	
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether		Ī	5	n.d.	-
Tribromodiphenyl ether		Ī	5	n.d.	-
Tetrabromodiphenyl ether		With reference to IEC 62321-6: 2015 and performed by GC/MS.	5	n.d.	-
Pentabromodiphenyl ether	ma/ka		5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether		Ī	5	n.d.	-
Nonabromodiphenyl ether			5	n.d.	-
Decabromodiphenyl ether	1		5	n.d.	-
Antimony (Sb)	mg/kg	With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	-
Arsenic (As)	mg/kg	With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	n.d.	-
Beryllium (Be)	mg/kg	With reference to US EPA Method 3052 for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50- 6, 134237-52-8))	mg/kg	With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-



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Unit Method	MDI	Result		
	Method	MDL	No.1	Limit
mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
mg/kg		50	n.d.	-
mg/kg	With reference to BS EN	50	76.5	-
mg/kg	– 14582:2007. Analysis was performed – by IC.	50	n.d.	-
mg/kg		50	n.d.	-
mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.mg/kgWith reference to BS EN 14582:2007. Analysis was performed by IC.mg/kgWith reference to BS EN 14582:2007. Analysis was performed by IC.mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10mg/kg50mg/kg50mg/kg14582:2007. Analysis was performed by IC.50mg/kg10mg/kg50mg/kg50mg/kg50mg/kg50mg/kg50mg/kg50mg/kg50mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.50mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.50	UnitMethodMDLmg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10n.d.mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10n.d.mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.10n.d.mg/kgWith reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.50n.d.mg/kgWith reference to BS EN 14582:2007. Analysis was performed by IC.50n.d.mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.50n.d.mg/kgWith reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.50n.d.

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Test Item(s)	Unit	Method	MDL	Result No.1	Limit
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	1000
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
DPP (Di-pentyl phthalate) DnPP (Di-n-pentyl phthalate) (CAS NO.:131-18-0)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7- rich) (CAS No.: 71888-89-6)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg	With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-



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Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. This is the additional test report of KA/2016/81710 which was issued on 2016/09/01. Please refer to KA/2016/81710 for original information.

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m². PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

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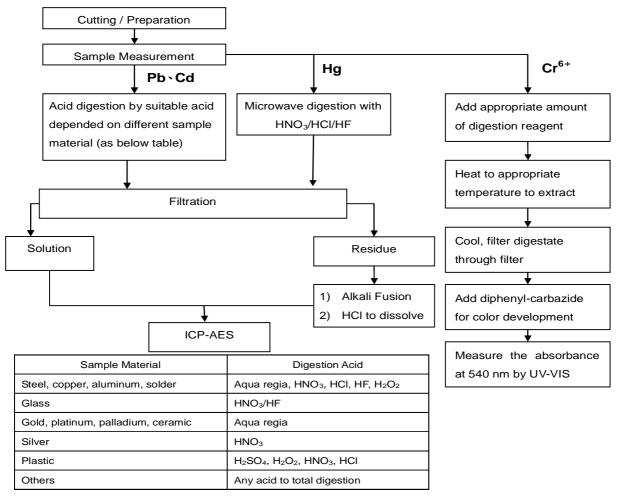


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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Jony Liu
- 3) Name of the person in charge of measurement: Ray Chang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95

(2) For metallic material, add pure water and heat to boiling.

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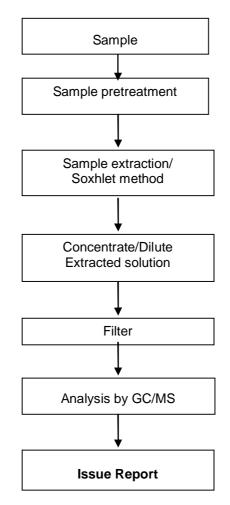
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SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. NO. 1 SENOKO SOUTH ROAD, SINGAPORE 758069

PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Dorothy Chen

2) Name of the person in charge of measurement: Ray Chang



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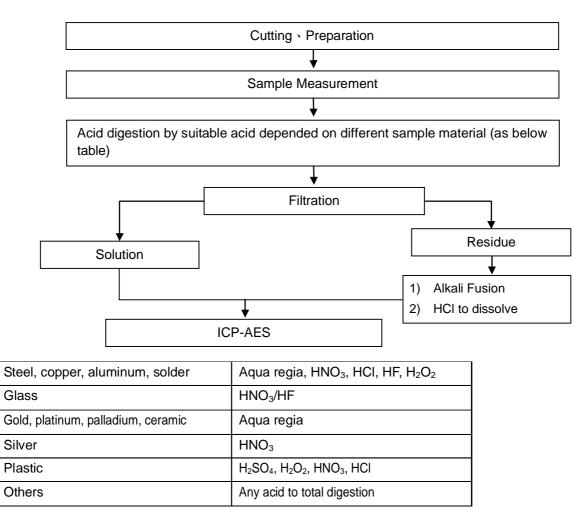


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SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. NO. 1 SENOKO SOUTH ROAD, SINGAPORE 758069

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Jony Liu
- 3) Name of the person in charge of measurement: Ray Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



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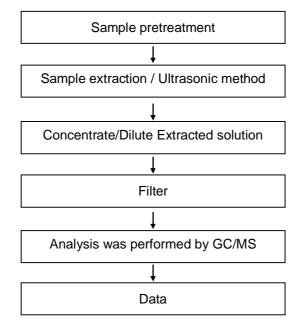
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HBCDD analytical flow chart

- 1) Name of the person who made measurement: Dorothy Chen
- 2) Name of the person in charge of measurement: Ray Chang



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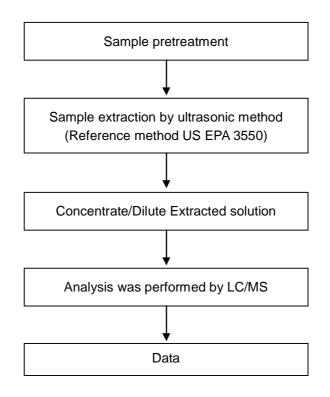
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Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Ginny Huang
- 2) Name of the person in charge of measurement: Ray Chang



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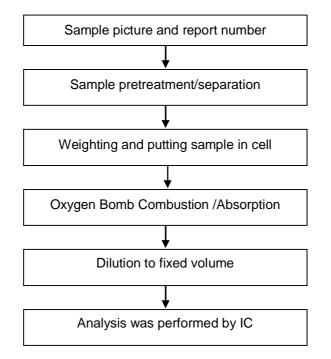
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Jean Hung
- 2) Name of the person in charge of measurement: Ray Chang



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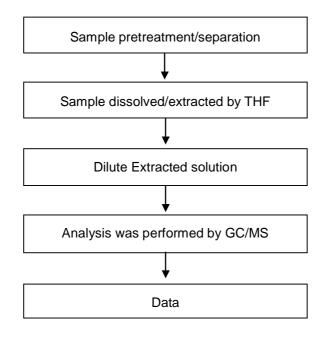
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Analytical flow chart of phthalate content

- Name of the person who made measurement: Dorothy Chen
- Name of the person in charge of measurement: Ray Chang

[Test method: IEC 62321-8]



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* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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