

No.: EKR23300157M03

Date: 08-Mar-2023

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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 the applicant as:

| Sample Submitted By Sample Name Style/Item No. | | : | SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. EPOXY MOLDING COMPOUND EME-G631BQ TYPE |
|--|---|-----|--|
| Sample Receiving Dat Testing Period | e | : | 02-Mar-2023 02-Mar-2023 to 08-Mar-2023 |
| Test Requested | : | (1) | As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s). Please refer to next pages for the other item(s). |
| Test Results | : | | Please refer to following pages. |
| Conclusion | : | (1) | Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU. |

Ray Chang, Ph.D./Depart the manage

Signed for and on behalt

Chemical Laboratory-Kaohsiung

SGS TAIWAN LTD.



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

TEST PART DESCRIPTION

No.1 : BLACK EPOXY MOLDING COMPOUND

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result | Limit |
|----------------------------|--|-------|-----|--------|-------|
| | | | | No.1 | |
| Cadmium (Cd) | With reference to IEC 62321-5: 2013, | mg/kg | 2 | n.d. | 100 |
| | analysis was performed by ICP-OES. | | | | |
| Lead (Pb) | With reference to IEC 62321-5: 2013, | mg/kg | 2 | n.d. | 1000 |
| | analysis was performed by ICP-OES. | | | | |
| Mercury (Hg) | With reference to IEC 62321-4: 2013+ | mg/kg | 2 | n.d. | 1000 |
| | AMD1: 2017, analysis was performed | | | | |
| | by ICP-OES. | | | | |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, | mg/kg | 8 | n.d. | 1000 |
| | analysis was performed by UV-VIS. | | | | |
| Monobromobiphenyl | | mg/kg | 5 | n.d. | - |
| Dibromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tribromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Pentabromobiphenyl | With reference to IEC 62321-6: 2015, | mg/kg | 5 | n.d. | - |
| Hexabromobiphenyl | analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Heptabromobiphenyl | analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Decabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Sum of PBBs | | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Pentabromodiphenyl ether | With reference to IEC 62321-6: 2015, | mg/kg | 5 | n.d. | - |
| Hexabromodiphenyl ether | analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Heptabromodiphenyl ether | analysis was performed by GC/MIS. | mg/kg | 5 | n.d. | - |
| Octabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Nonabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. | - |
| Sum of PBDEs | | mg/kg | - | n.d. | 1000 |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|--|---|-------|------|--------|-------|
| | | | | No.1 | |
| Beryllium (Be) (CAS No.: 7440-41-7) | With reference to US EPA 3052: 1996, | mg/kg | 2 | n.d. | - |
| | analysis was performed by ICP-OES. | | | | |
| Arsenic (As) (CAS No.: 7440-38-2) | With reference to US EPA 3052: 1996, | mg/kg | 2 | n.d. | - |
| | analysis was performed by ICP-OES. | | | | |
| Antimony (Sb) (CAS No.: 7440-36-0) | With reference to US EPA 3052: 1996, | mg/kg | 2 | n.d. | - |
| | analysis was performed by ICP-OES. | | | | |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | With reference to IEC 62321: 2008, analysis was performed by GC/MS. | mg/kg | 5 | n.d. | - |
| Perfluorooctanoic acid (PFOA) and it's salt (CAS No.: 335-67-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| PFOS and its salts (CAS No.: 1763-23-1 and its salts) | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d. | - |
| Fluorine (F) (CAS No.: 14762-94-8) | | mg/kg | 50 | n.d. | - |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, | mg/kg | 50 | 63.4 | - |
| Bromine (Br) (CAS No.: 10097-32-2) | analysis was performed by IC. | mg/kg | 50 | n.d. | - |
| lodine (I) (CAS No.: 14362-44-8) | 1 | mg/kg | 50 | n.d. | - |
| Dibutyl phthalate (DBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Diisobutyl phthalate (DIBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | 1000 |
| Diisopentyl phthalate (DIPP) (CAS No.: 605-50-5) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. | - |

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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|--|--------------------------------------|-------|-----|--------|-------|
| | | | | No.1 | |
| Di-n-hexyl phthalate (DNHP) (CAS No.: | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| 84-75-3) | analysis was performed by GC/MS. | | | | |
| Bis-(2-methoxyethyl) phthalate (DMEP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| (CAS No.: 117-82-8) | analysis was performed by GC/MS. | | | | |
| Di-pentyl phthalate (DPP) (CAS No.: | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| 131-18-0) | analysis was performed by GC/MS. | | | | |
| 1,2-Benzenedicarboxylic acid, di-C6-8- | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| branched alkyl esters, C7-rich (DIHP) | analysis was performed by GC/MS. | | | | |
| (CAS No.: 71888-89-6) | | | | | |
| 1,2-Benzenedicarboxylic acid, di-C7- | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| 11-branched and linear alkyl esters | analysis was performed by GC/MS. | | | | |
| (DHNUP) (CAS No.: 68515-42-4) | | | | | |
| Diisodecyl phthalate (DIDP) (CAS No.: | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | - |
| 26761-40-0, 68515-49-1) | analysis was performed by GC/MS. | | | | |

Note :

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- PFOS and its salts including : CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
- 6. PFOA and its salts including : CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
- 7. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.
- 8. This is the additional test report of EKR23300157.



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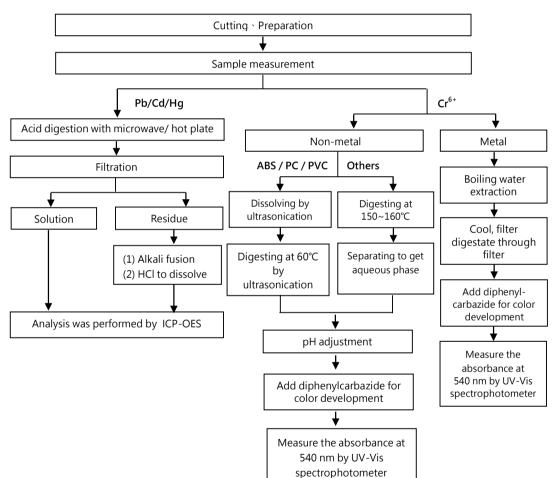
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SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. NO. 1 SENOKO SOUTH ROAD, SINGAPORE 758069

Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.



(Cr^{6+} test method excluded)

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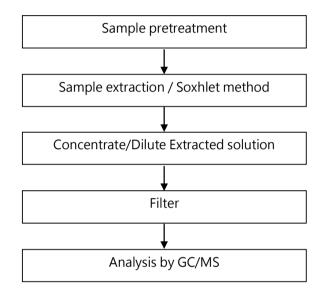
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PBB/PBDE analytical FLOW CHART



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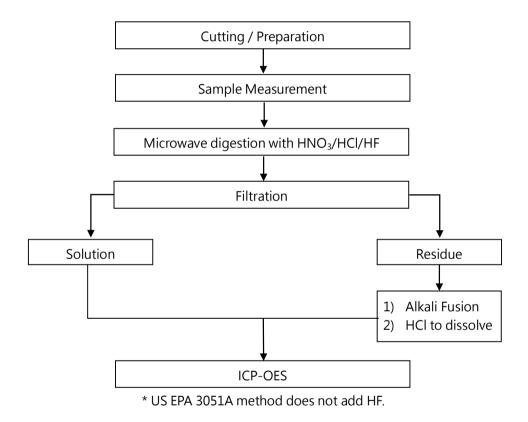
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SUMITOMO BAKELITE SINGAPORE PTE CO., LTD. NO. 1 SENOKO SOUTH ROAD, SINGAPORE 758069

Analytical flow chart of Elements (Heavy Metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

[Reference method : US EPA 3051A US EPA 3052]



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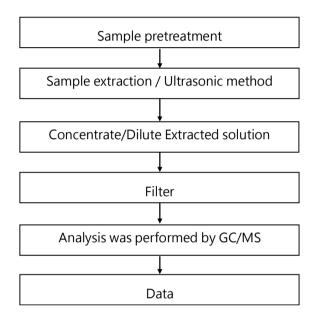
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Analytical flow chart - HBCDD



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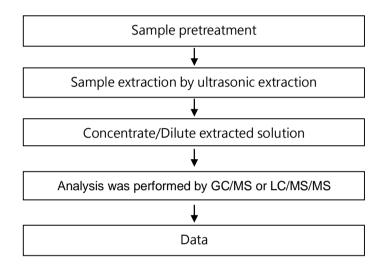
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Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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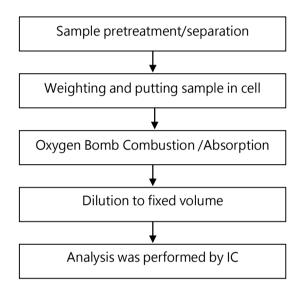
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Analytical flow chart of Halogen



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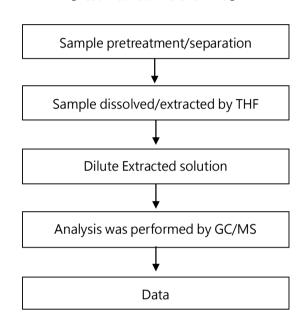
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Analytical flow chart of phthalate content



[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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