

No.: ETR23C02359M10 Date: 19-Dec-2023

RESONAC CORPORATION

14 GOIMINAMIKAIGAN ICHIHARA-SHI CHIBA, 290-8567, JAPAN

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

Sample Submitted By : RESONAC CORPORATION

Sample Name : DIE ATTACH FILM Style/Item No. : FH-SC13 SERIES

Sample Receiving Date : 13-Dec-2023

Testing Period : 13-Dec-2023 to 19-Dec-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).

(2) 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 selected part of 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.

Troy Chang / Department Malager
Signed for and on behalf of Alwand
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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PIN CODE: D46A2A7

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Test Part Description

No.1 : WHITE FILM (EXCLUDING THE DOUBLE RELEASE FILM)

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 |
| Lead (Pb) | analysis was performed by ICP-OES. | mg/kg | 2 | n.d. | 1000 |
| 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. | 1 |
| Dibromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Tribromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Decabromobiphenyl | | mg/kg | 5 | n.d. | 1 |
| Sum of PBBs | With reference to IEC 62321-6: 2015, | mg/kg | - | n.d. | 1000 |
| Monobromodiphenyl ether | analysis was performed by GC/MS. | mg/kg | 5 | n.d. | ı |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. | ı |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. | = |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. | = |
| Pentabromodiphenyl ether | | mg/kg | 5 | n.d. | = |
| Hexabromodiphenyl ether | | mg/kg | 5 | n.d. | = |
| Heptabromodiphenyl ether | | 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 | |
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Dibutyl phthalate (DBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Diisobutyl phthalate (DIBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, | mg/kg | 50 | 146 | - |
| | analysis was performed by IC. | | | | |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| lodine (I) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |
| 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. | | | | |
| Antimony trioxide (Sb ₂ O ₃) (CAS No.: | Calculated from the result of Antimony. | mg/kg | 2▲ | n.d. | - |
| 1309-64-4) | | | | | |

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
- 5. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

| AX | Α | F | |
|---------------------------|----------|--------|--|
| Antimony trioxide (Sb₂O₃) | Antimony | 1.1971 | |

Parameter Conversion Table: https://eecloud.sqs.com/Region_TW/DocDownload.aspx?name=Others

- 6. 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.
- 7. This is the additional test report of ETR23C02359.

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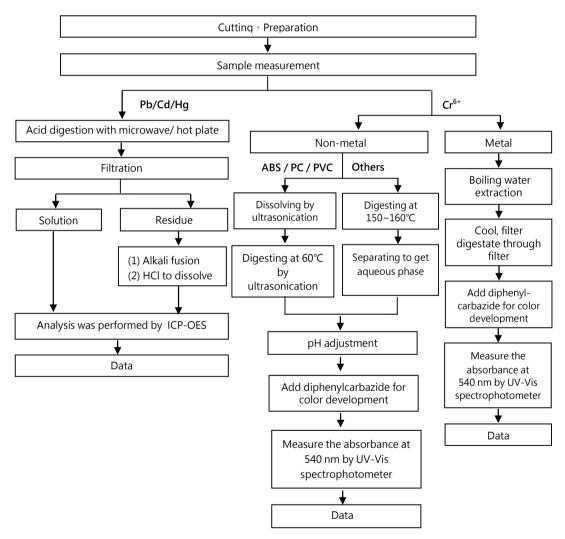
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Analytical flow chart of heavy metal

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

(Cr⁶⁺ test method excluded)



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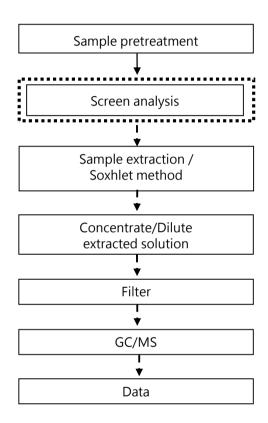


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Analytical flow chart - PBBs / PBDEs

First testing process ____ Optional screen process ____ Confirmation process ____ ___



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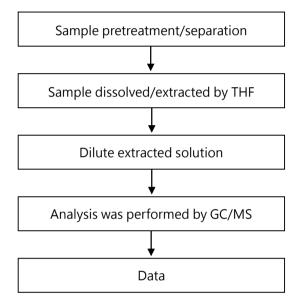


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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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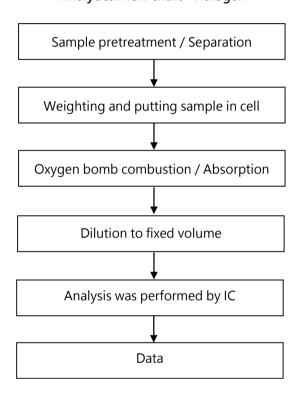
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Analytical flow chart - Halogen



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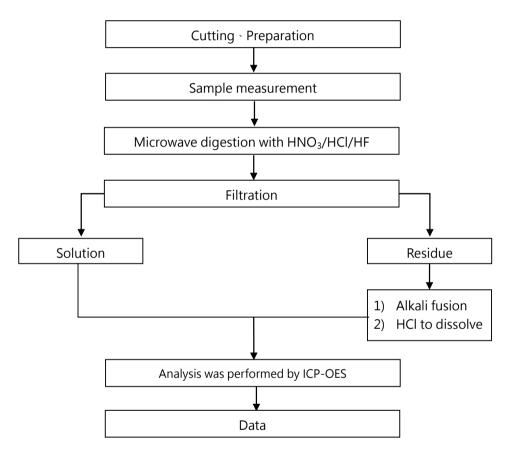
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Analytical flow chart of elements (Heavy metal included)

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

【Reference method: US EPA 3051A、US EPA 3052】



* US EPA 3051A method does not add HF.

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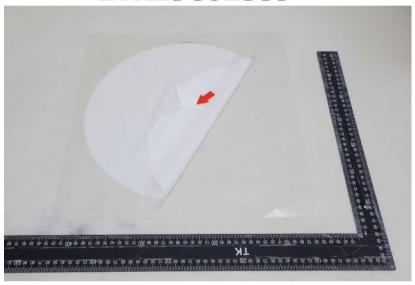


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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR23C02359



** End of Report **

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