

## Test Report

No. : CE/2020/73660

Date : 2020/07/27

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KESTER LLC

800 W. THORNDALE AVE. ITASCA, IL 60143

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

Sample Submitted By : KESTER LLC  
 Sample Description : SeCure 9753RJ9  
 Sample Receiving Date : 2020/07/20  
 Testing Period : 2020/07/20 to 2020/07/27

### 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 Result(s) : 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.

*Troy Chang*  
 Troy Chang / Manager - Tech  
 Signed for and behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory - Taipei



PIN CODE: 69035E45

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## Test Result(s)

PART NAME No.1 : TRANSPARENT GLUE

| Test Item(s)               | Unit  | Method  | MDL | Result | Limit |
|----------------------------|-------|---|-----|--------|-------|
|                            |       |   |     | No.1   |       |
| Cadmium (Cd)               | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-OES.           | 2   | n.d.   | 100   |
| Lead (Pb)                  | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-OES.           | 2   | n.d.   | 1000  |
| Mercury (Hg)               | mg/kg | With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES. | 2   | n.d.   | 1000  |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321-7-2: 2017 and performed by UV-VIS.          | 8   | n.d.   | 1000  |
| <b>Sum of PBBs</b>         | mg/kg | With reference to IEC 62321-6: 2015 and performed by GC/MS.             | -   | n.d.   | 1000  |
| 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         | mg/kg |   | 5   | n.d.   | -     |
| Hexabromobiphenyl          | mg/kg |   | 5   | n.d.   | -     |
| Heptabromobiphenyl         | mg/kg |   | 5   | n.d.   | -     |
| Octabromobiphenyl          | mg/kg |   | 5   | n.d.   | -     |
| Nonabromobiphenyl          | mg/kg |   | 5   | n.d.   | -     |
| Decabromobiphenyl          | mg/kg |   | 5   | n.d.   | -     |
| <b>Sum of PBDEs</b>        | 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   | 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.   | -     |

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| Test Item(s)   | Unit  | Method  | MDL | Result | Limit |
|--|-------|---|-----|--------|-------|
|  |       |   |     | No.1   |       |
| BBP (Butyl Benzyl phthalate)<br>(CAS No.: 85-68-7)             | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | 1000  |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)                     | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | 1000  |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)        | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | 1000  |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)                | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | 1000  |
| DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | -     |
| DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | -     |
| DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)                | mg/kg | With reference to IEC 62321-8: 2017. Analysis was performed by GC/MS. | 50  | n.d.   | -     |
| <b>Halogen</b>   |       |   |     |        |       |
| Halogen-Fluorine (F)<br>(CAS No.: 14762-94-8)                  | mg/kg | With reference to BS EN 14582: 2016. Analysis was performed by IC.    | 50  | n.d.   | -     |
| Halogen-Chlorine (Cl)<br>(CAS No.: 22537-15-1)                 | mg/kg | With reference to BS EN 14582: 2016. Analysis was performed by IC.    | 50  | n.d.   | -     |
| Halogen-Bromine (Br)<br>(CAS No.: 10097-32-2)                  | mg/kg | With reference to BS EN 14582: 2016. Analysis was performed by IC.    | 50  | 6730   | -     |
| Halogen-Iodine (I)<br>(CAS No.: 14362-44-8)                    | mg/kg | With reference to BS EN 14582: 2016. Analysis was performed by IC.    | 50  | n.d.   | -     |

## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = less than MDL
4. " - " = Not Regulated
5. The statement of compliance conformity is based on comparison of testing results and limits.

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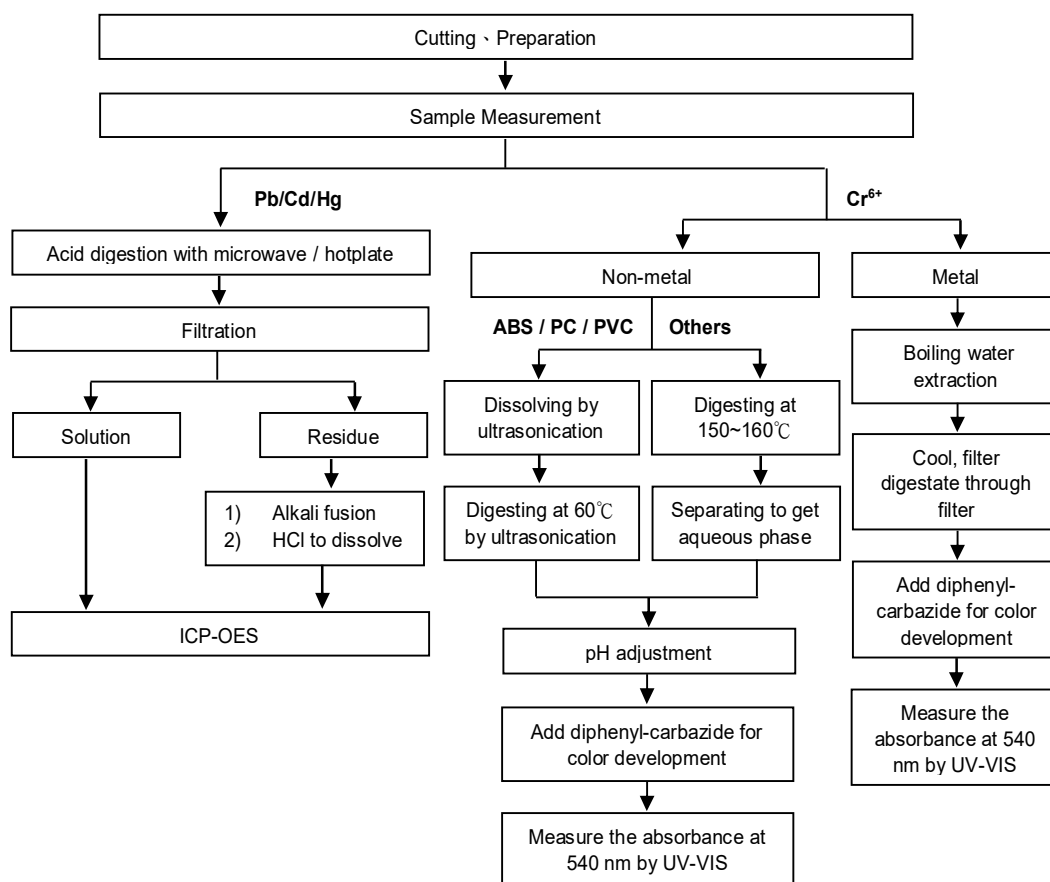
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## Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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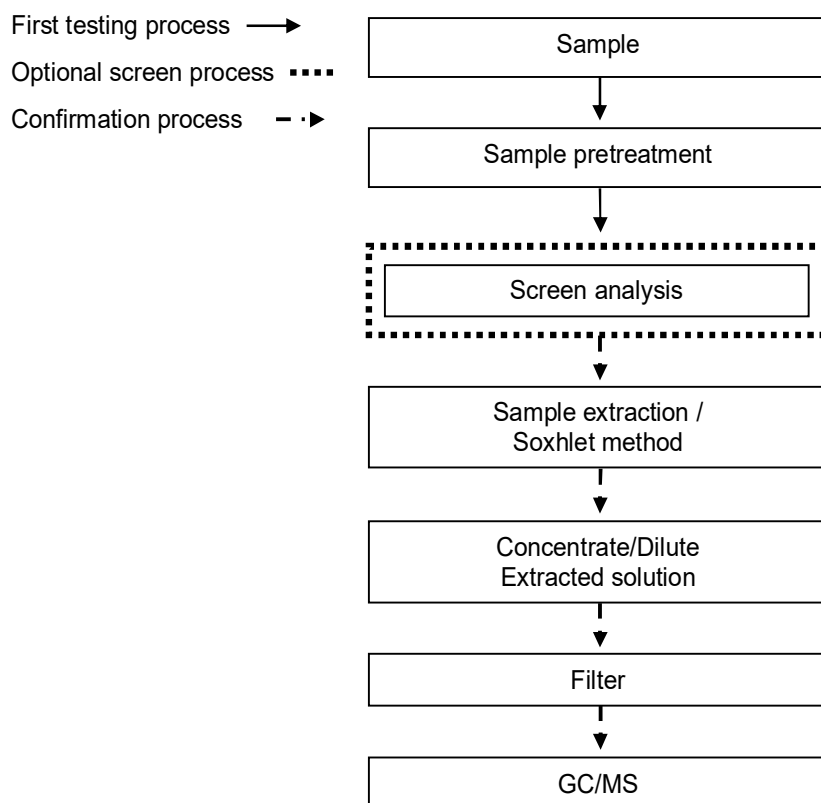
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### Analytical flow chart – PBB / PBDE



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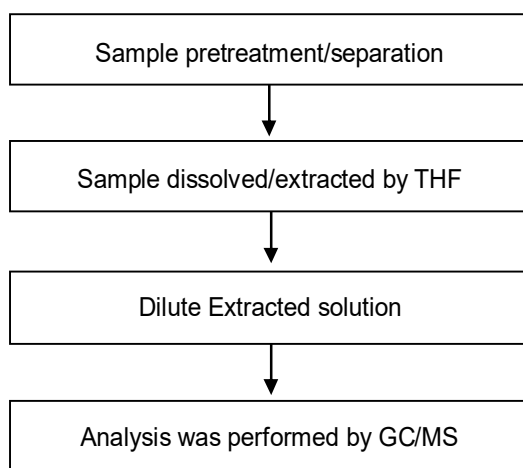
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## Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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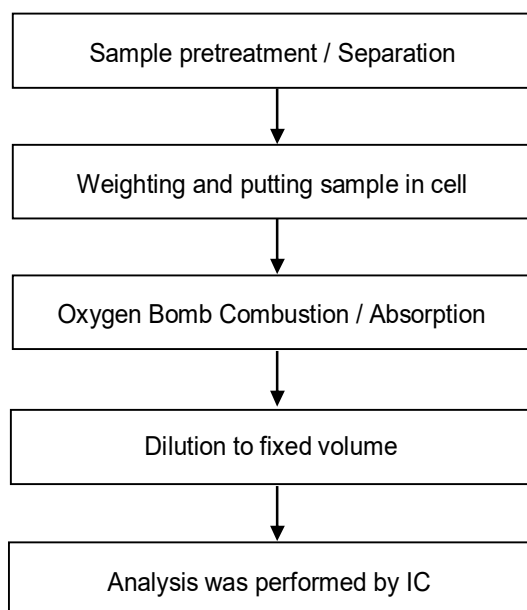
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## Analytical flow chart - Halogen



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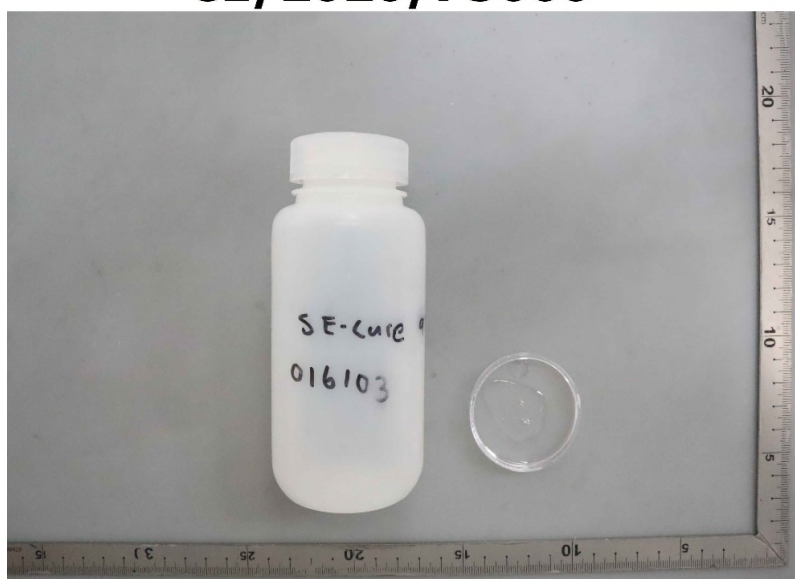
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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