

**DHSTEEL**

95, Chungjusan-dan 1-ro  
Chungju-si, Chungcheongbuk-do  
Korea



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

**SGS File No.** : AYAA24-02571  
**Product Name** : SCM420H  
**Item No./Part No.** : N/A  
**Received Date** : 2024. 01. 12  
**Test Period** : 2024. 01. 12 to 2024. 01. 19  
**Test Results** : For further details, please refer to following page(s)



Tony Park Billy Oh  
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Technical Manager / SGS Korea Co., Ltd

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# Test Report No. F690101/LF-CTSAYAA24-02571

Issued Date : 2024. 01. 19

Page 2 of 6

Sample No. : AYAA24-02571.001  
Sample Description : SCM420H  
Item No./Part No. : N/A  
Materials : N/A

## Heavy Metals

| Test Items                   | Unit               | Test Method   | MDL | Results |
|------------------------------|--------------------|---|-----|---------|
| Cadmium (Cd)                 | mg/kg              | With reference to IEC 62321-5 : 2013, by ICP-OES              | 0.5 | N.D.    |
| Lead (Pb)                    | mg/kg              | With reference to IEC 62321-5 : 2013, by ICP-OES              | 5   | N.D.    |
| Mercury (Hg)                 | mg/kg              | With reference to IEC 62321-4 : 2013+AMD1:2017CSV, by ICP-OES | 2   | N.D.    |
| Hexavalent Chromium (Cr VI)* | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1 : 2015, by UV-Vis             | 0.1 | N.D.    |

## Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method                                    | MDL | Results |
|--------------------------|-------|--|-----|---------|
| Monobromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromobiphenyl          | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromobiphenyl         | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Monobromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromodiphenyl ether    | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromodiphenyl ether   | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

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# Test Report No. F690101/LF-CTSAYAA24-02571

Issued Date : 2024. 01. 19

Page 3 of 6

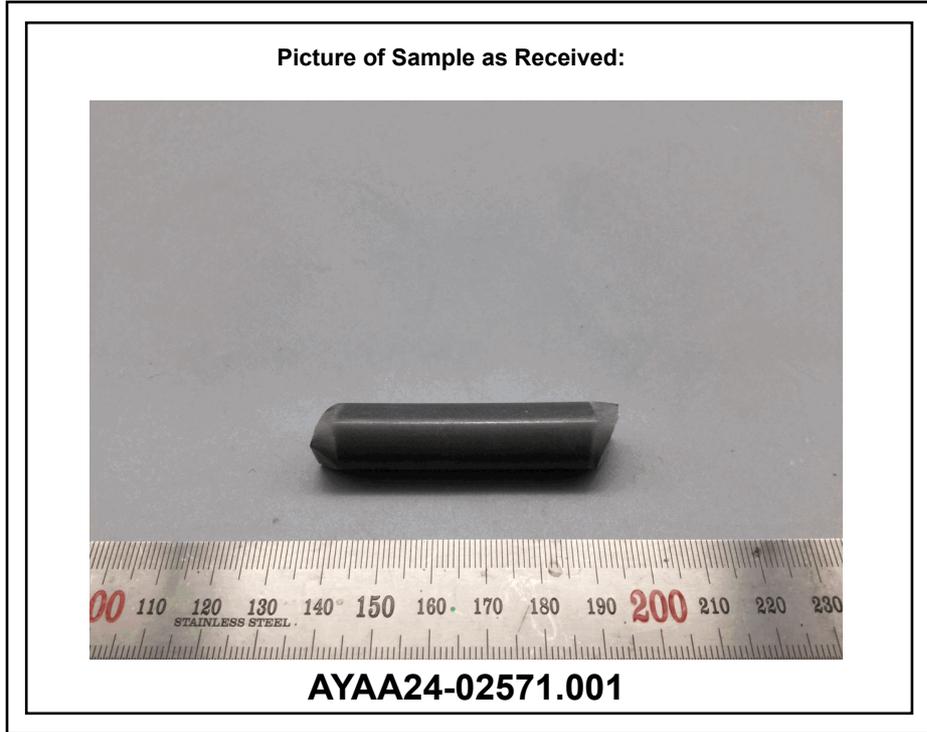
Sample No. : AYAA24-02571.001  
 Sample Description : SCM420H  
 Item No./Part No. : N/A  
 Materials : N/A

## Flame Retardants

| Test Items                     | Unit  | Test Method                              | MDL | Results |
|--------------------------------|-------|--|-----|---------|
| Hexabromocyclododecane (HBCDD) | mg/kg | With reference to USEPA 3540 C, by LC/MS | 5   | N.D.    |

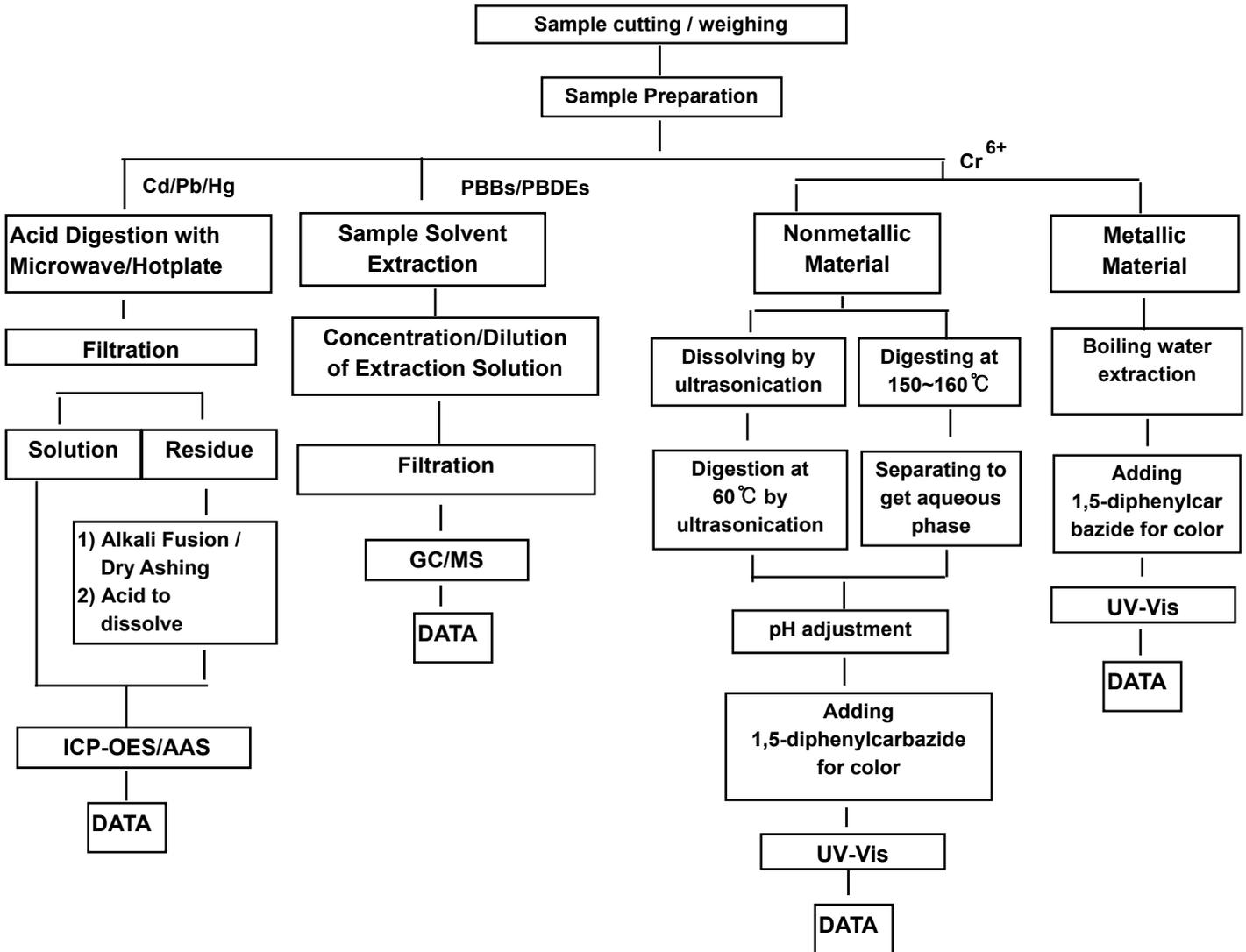
- NOTE:
- (1) N.D. = Not detected. (<MDL)
  - (2) mg/kg = ppm, ug/kg = ppb, mg/L = ppm
  - (3) MDL = Method Detection Limit
  - (4) - = No regulation
  - (5) \*\* = Qualitative analysis (No Unit)
  - (6) Negative = Undetectable / Positive = Detectable
  - (7) \* = a. The sample is positive for Cr VI if the Cr VI concentration is greater than 0.13 ug/cm2.  
 The sample coating is considered to contain Cr VI.  
 b. The sample is negative for Cr VI if Cr VI is ND(concentration less than 0.10 ug/cm2).  
 The coating is considered a non-Cr VI based coating.  
 c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive – unavoidable coating variations may influence the determination.
  - (8) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
 This test report is not related to Korea Laboratory Accreditation Scheme .

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**Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr<sup>6+</sup> /PBBs&PBDEs Testing**

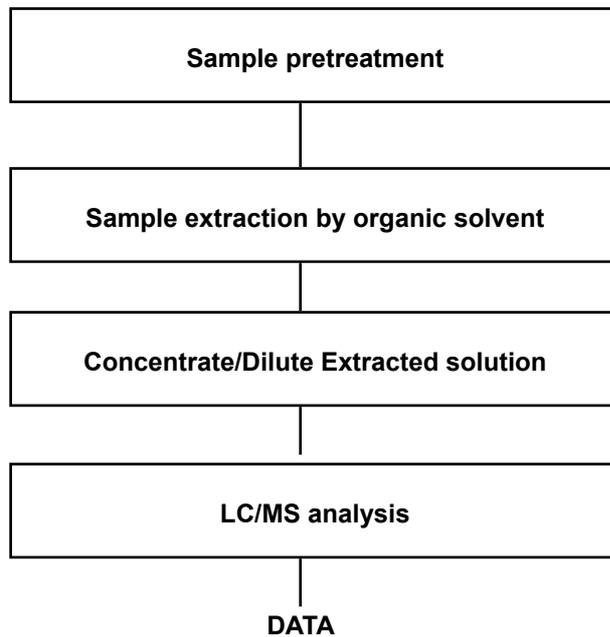


The samples were dissolved totally at the acid digestion step of the above flow chart for Cd,Pb,Hg  
Section Chief : Tonny Park

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### Testing Flow Chart for HBCD



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

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