



# Test Report No. F690101/LF-CTSAYGU20-06734

Issued Date : 2020. 07. 10

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DAEHO P&C CO., LTD.  
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Pohang-si, Gyeongbuk  
Korea



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

**SGS File No.** : AYGU20-06734  
**Product Name** : SUYB1  
**Item No./Part No.** : N/A  
**Received Date** : 2020. 07. 01  
**Test Period** : 2020. 07. 01 to 2020. 07. 10  
**Test Results** : For further details, please refer to following page(s)

SGS Korea Co., Ltd.  
/ LTS Busan Laboratory

Dongju Lee / Technical Manager

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CBQP-7081-E01 (01)

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Sample No. : AYGU20-06734.001  
Sample Description : SUYB1  
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(Determination of Cadmium by ICP-OES) | 0.5 | N.D.    |
| Lead (Pb)                     | mg/kg              | With reference to IEC 62321-5:2013(Determination of Lead by ICP-OES)    | 5   | N.D.    |
| Mercury (Hg)                  | mg/kg              | With reference to IEC 62321-4:2013(Determination of Mercury by ICP-OES) | 2   | N.D.    |
| Hexavalent Chromium (Cr VI) * | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1:2015 (Determination of CrVI 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 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Dibromobiphenyl         | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tribromobiphenyl        | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tetrabromobiphenyl      | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Pentabromobiphenyl      | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Hexabromobiphenyl       | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Heptabromobiphenyl      | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Octabromobiphenyl       | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Nonabromobiphenyl       | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Decabromobiphenyl       | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Dibromodiphenyl ether   | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Tribromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
|                         |       |   |     |         |

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Sample No. : AYGU20-06734.001  
Sample Description : SUYB1  
Item No./Part No. : N/A  
Materials : N/A

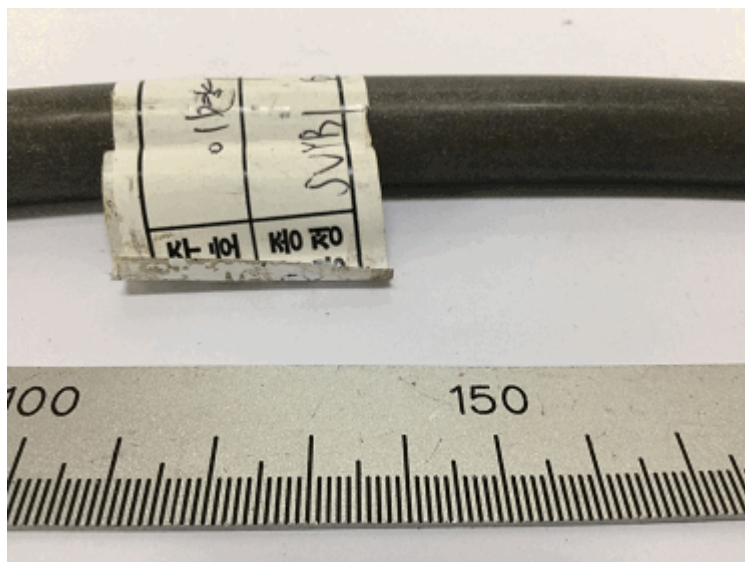
## Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method   | MDL | Results |
|--------------------------|-------|---|-----|---------|
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBBs and PBDEs by GC-MS) | 5   | N.D.    |

- NOTE:
- (1) N.D. = Not detected.(<MDL)
  - (2) mg/kg = ppm
  - (3) µg/kg = ppb
  - (4) MDL = Method Detection Limit
  - (5) - = No regulation
  - (6) Negative = Undetectable / Positive = Detectable
  - (7) \*\* = Qualitative analysis (No Unit)
  - (8) \* = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm<sup>2</sup>. The sample coating is considered to contain CrVI.  
b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm<sup>2</sup>). The coating is considered a non-CrVI based coating.  
c. The result between 0.10 ug/cm<sup>2</sup> and 0.13 ug/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.
  - (9) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
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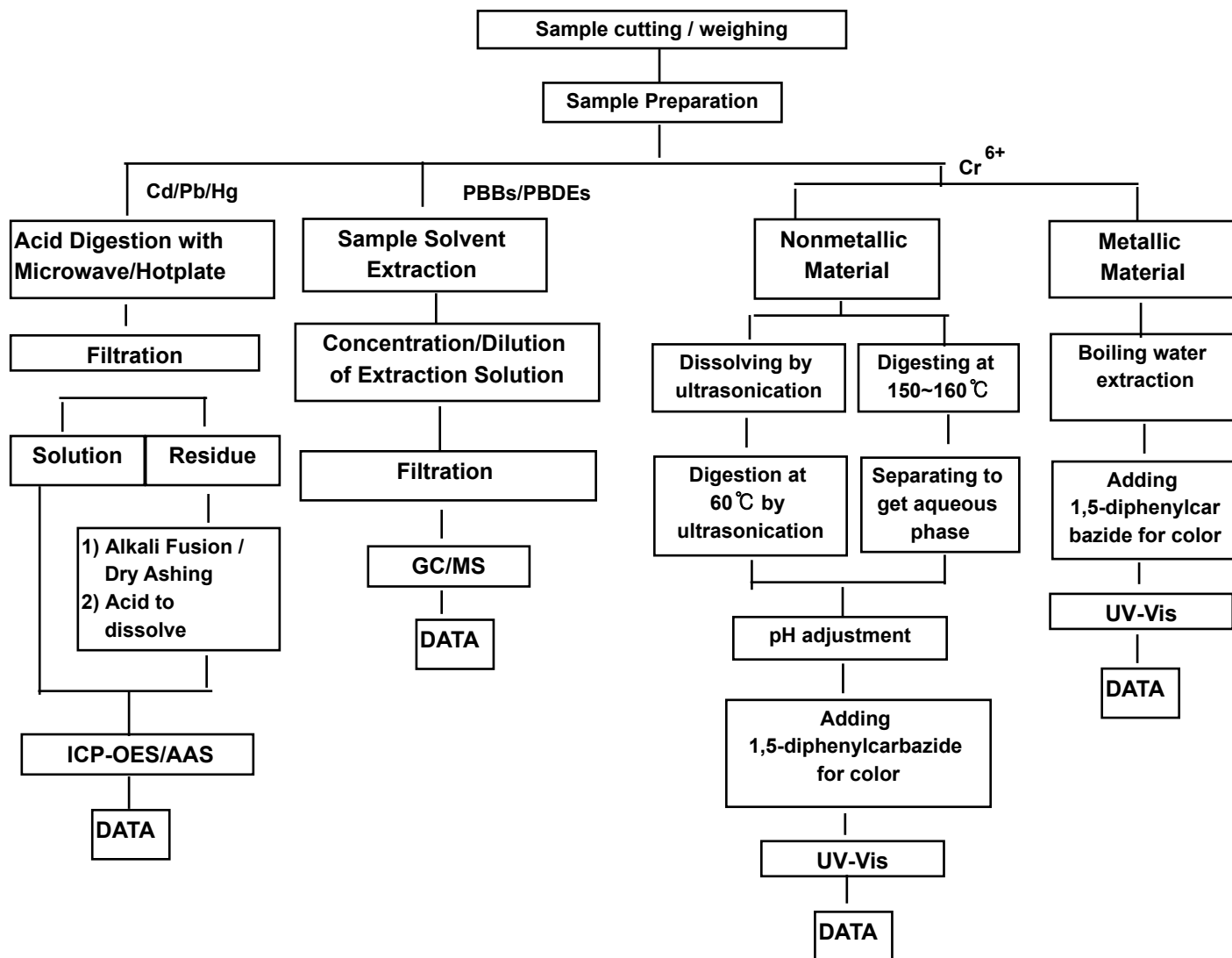
Picture of Sample as Received:



**AYGU20-06734.001**

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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 : Gihwan Kim

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