



## Test Report No. F690101/LF-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 1 of 6

### LG CHEMICAL LTD.

55, Yeosusandan 2-ro  
Yeosu-si, Jeollanam-do  
Korea



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

**SGS File No.** : AYAA25-10135

**Product Name** : SG175

**Item No./Part No.** : N/A

**Client Reference Data** : All Color

**Received Date** : 2025. 02. 25

**Test Period** : 2025. 02. 25 to 2025. 03. 07

**Report Comments** : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.

**Conclusion** : Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

**Test Results** : For further details, please refer to following page(s)

*Monet Jeong*

Monet Jeong

Technical Manager / SGS Korea Co., Ltd

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# Test Report No. F690101/LF-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 2 of 6

Sample No. : AYAA25-10135.001  
Sample Description : SG175  
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)+ | mg/kg | With reference to IEC 62321-7-2 : 2017, by UV-Vis and/or with reference to IEC 62321-5 : 2013, by ICP-OES | 8   | 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-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 3 of 6

Sample No. : AYAA25-10135.001  
Sample Description : SG175  
Item No./Part No. : N/A  
Materials : N/A

## Phthalates

| Test Items                         | Unit  | Test Method                                   | MDL | Results |
|------------------------------------|-------|-----------------------------------------------|-----|---------|
| Di-isobutyl phthalate (DIBP)       | mg/kg | With reference to IEC 62321-8: 2017, by GC-MS | 50  | N.D.    |
| Di-butyl phthalate (DBP)           | mg/kg | With reference to IEC 62321-8: 2017, by GC-MS | 50  | N.D.    |
| Benzyl butyl phthalate (BBP)       | mg/kg | With reference to IEC 62321-8: 2017, by GC-MS | 50  | N.D.    |
| Di-(2-ethylhexyl) phthalate (DEHP) | mg/kg | With reference to IEC 62321-8: 2017, by GC-MS | 50  | 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 result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.  
b. If the content of Total Chromium (Cr) is greater than the MDL of Hexavalent Chromium (Cr(VI)), it is the result of hexavalent Chromium by UV-VIS.
  - (8) ++ = 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.

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# Test Report No. F690101/LF-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 4 of 6

Picture of Sample as Received:



**AYAA25-10135.001**

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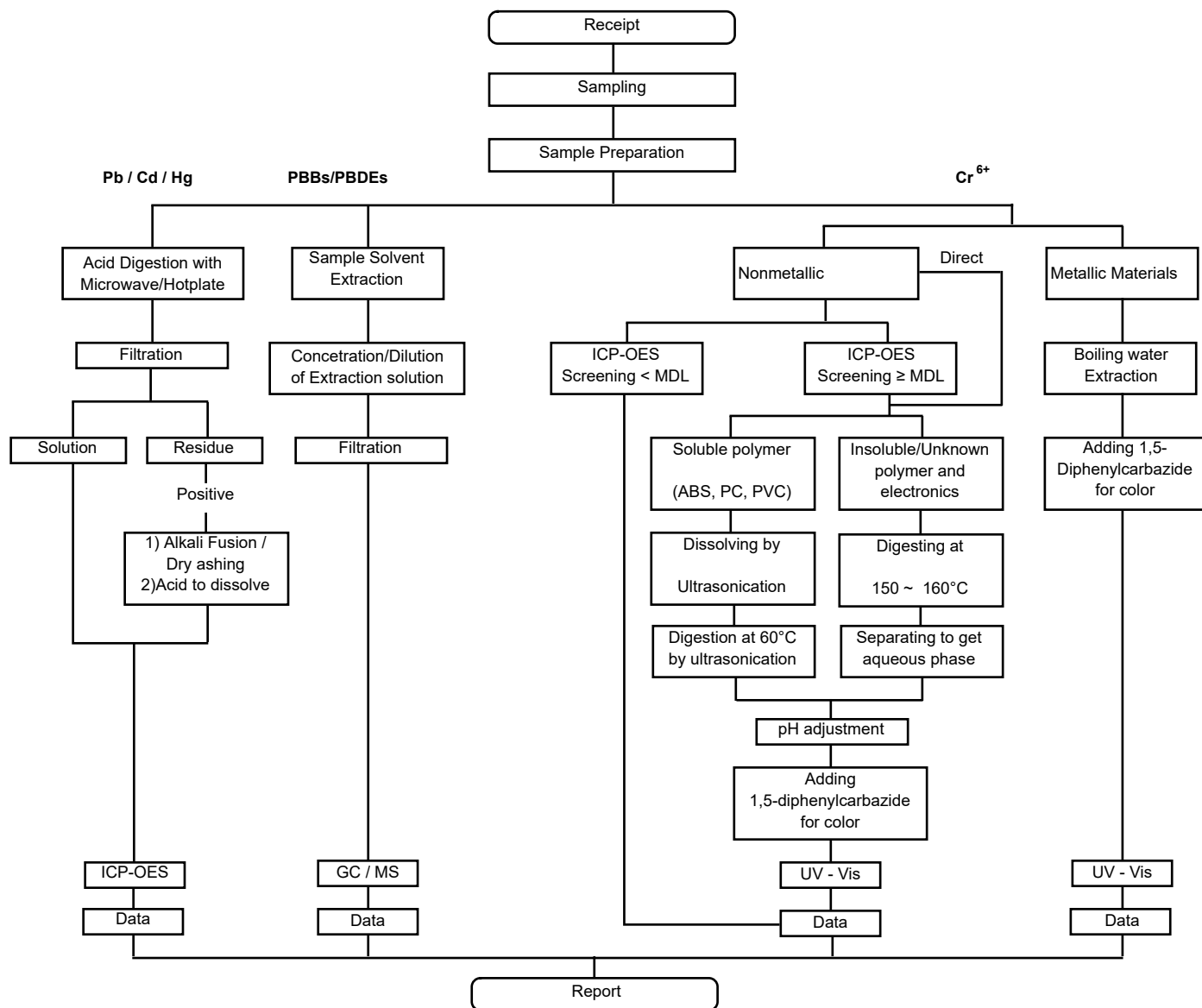


**Test Report** No. F690101/LF-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 5 of 6

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



The samples were dissolved totally at the acid digestion step of the above flow chart for Cd, Pb, Hg.

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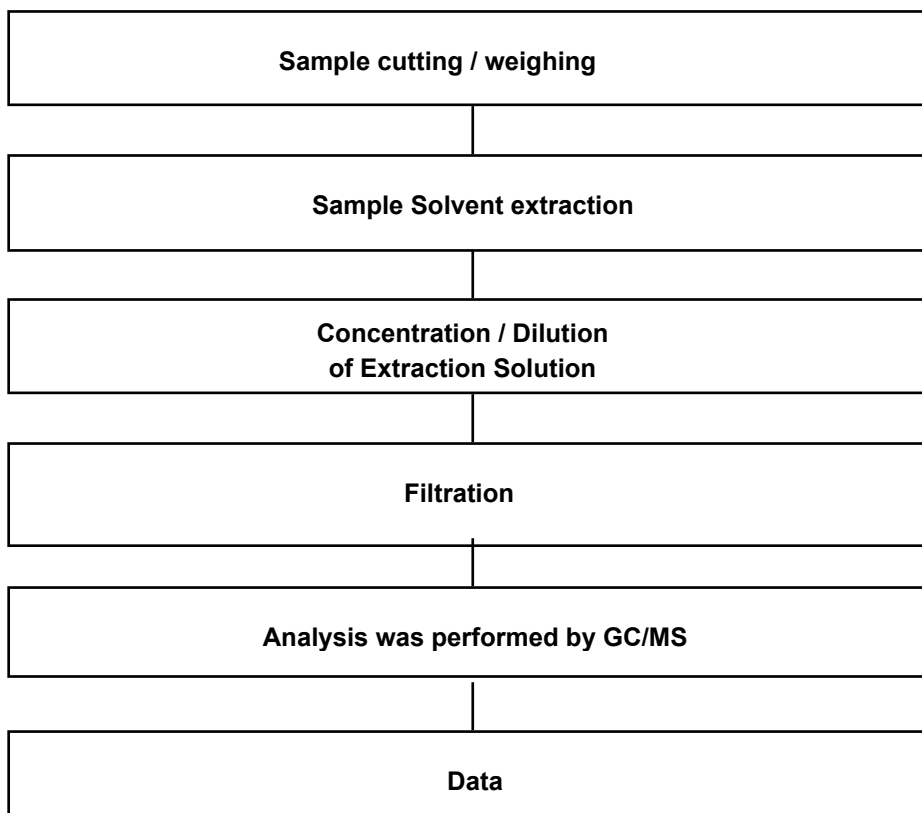


**Test Report** No. F690101/LF-CTSAYAA25-10135

Issued Date : 2025. 03. 07

Page 6 of 6

### Flow Chart for PhthalateTest



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

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