

KUMHO PETROCHEMICAL CO., LTD.

64, Sanggae-ro Nam-gu, Ulsan Korea

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

SGS File No. : AYSA21-08916

Sample Description : KHS68, RUBBER

Style No./Item No. : N/A

Received Date : 2021. 06. 03

Test Period : 2021. 06. 03 to 2021. 06. 09

Report Comments

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.

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

SGS Korea Co., Ltd.

Issued Date: 2021.06.09

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Tommy Oh / Chemical Lab Mgr



Sample No. : AYSA21-08916.001

Sample Description : KHS68
Item No./Part No. : N/A
Materials : RUBBER

Heavy Metals

| Test Items | Unit | Test Method | MDL | Results |
|------------------------------|-------|---------------------------------------------------------------------------------------------------------|-----|---------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-4 : 2013+A1:2017, With reference to IEC 62321-5 : 2013, by ICP-0ES | 0.5 | N.D. |
| Lead (Pb) | mg/kg | With reference to IEC 62321-4: 2013+A1:2017, With reference to IEC 62321-5 : 2013, by ICP-0ES | 5 | N.D. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4: 2013+A1:2017, With reference to IEC 62321-5 : 2013, by ICP-0ES | 2 | N.D. |
| Hexavalent Chromium (Cr VI)* | | With reference to IEC 62321-7-2: 2017, by UV-Vis and/or with reference to IEC 62321-5: 2013, by ICP-0ES | 8 | N.D. |

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Flame Retardants-PBBs/PBDEs

| Test Items | Unit | Test Method | MDL | Results |
|-------------------------|-------|------------------------------------------------|-----|---------|
| Monobromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| | | GC-MS | | |

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Sample No. : AYSA21-08916.001

Sample Description : KHS68
Item No./Part No. : N/A
Materials : RUBBER

Flame Retardants-PBBs/PBDEs

| Test Items Tribromodiphenyl ether | Unit mg/kg | Test Method With reference to IEC 62321-6 : 2015, by GC-MS | MDL 50 | Results N.D. |
|-----------------------------------|----------------------|-------------------------------------------------------------------|------------------|-----------------|
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 50 | N.D. |

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) μ g/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) * = Qualitative analysis (No Unit)

(6) Negative = Undetectable / Positive = Detectable

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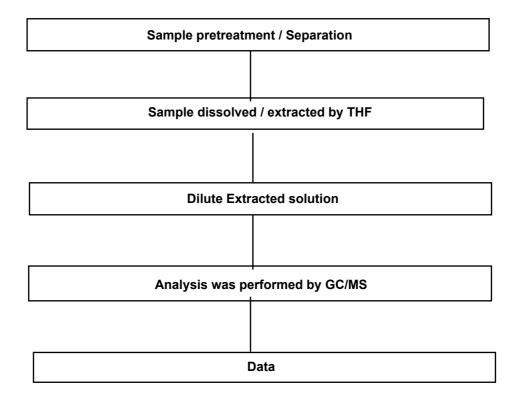
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Flow Chart for Phthalate Test

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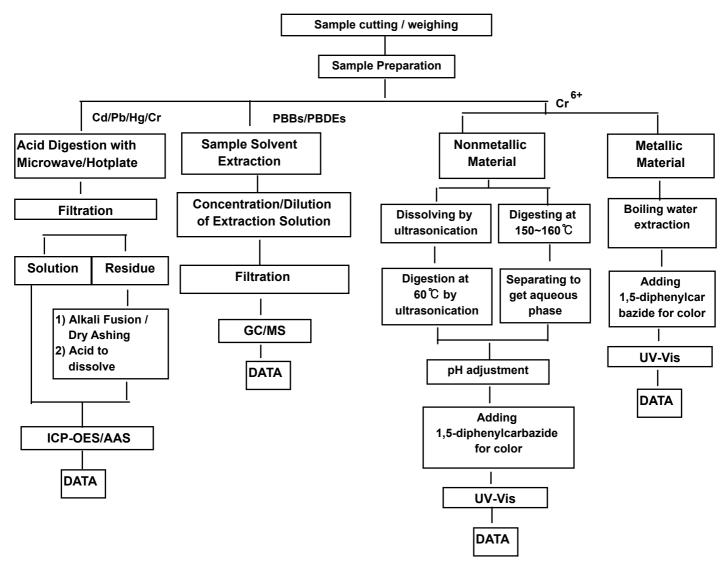
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Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr⁶⁺ /PBBs&PBDEs Testing

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

*** End of Report ***

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