

**Test Report** No.: SHAEC23004570108 **Date**: Apr 25, 2023 Page 1 of 12

Client Name: SUMITOMO BAKELITE (SUZHOU) CO., LTD

Client Address: 140 ZHONGXIN AVENUE WEST, SUZHOU INDUSTRIAL PARK, SUZHOU, CHINA

Sample Name: EME-G311QB SERIES

The above sample(s) and information were provided by the client.

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SGS Job No.: SHP23-000279
Sample Receiving Date: Apr 17, 2023

Testing Period: Apr 17, 2023 ~ Apr 25, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement                                                                                                                                                                                                                                                                                                           | Conclusion  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Element(s)                                                                                                                                                                                                                                                                                                                 | See Results |
| Halogen                                                                                                                                                                                                                                                                                                                    | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                             | See Results |
| Phthalates                                                                                                                                                                                                                                                                                                                 | See Results |

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Approved Signatory





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### Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description     |
|-------|------------|-------------------------|-----------------|
| SN1   | A7         | SHA23-0045701-0001.C007 | Dark-grey solid |

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017,

IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis

and GC-MS.

| Test Item(s)                        | Limit | Unit(s) | MDL | A7 |
|-------------------------------------|-------|---------|-----|----|
| Cadmium(Cd)                         | 100   | mg/kg   | 2   | ND |
| Lead (Pb)                           | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                        | 1000  | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))        | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBBs)            | 1000  | mg/kg   | -   | ND |
| Monobromobiphenyl (MonoBB)          | -     | mg/kg   | 5   | ND |
| Dibromobiphenyl (DiBB)              | 1     | mg/kg   | 5   | ND |
| Tribromobiphenyl (TriBB)            | 1     | mg/kg   | 5   | ND |
| Tetrabromobiphenyl (TetraBB)        | •     | mg/kg   | 5   | ND |
| Pentabromobiphenyl (PentaBB)        | •     | mg/kg   | 5   | ND |
| Hexabromobiphenyl (HexaBB)          | •     | mg/kg   | 5   | ND |
| Heptabromobiphenyl (HeptaBB)        | •     | mg/kg   | 5   | ND |
| Octabromobiphenyl (OctaBB)          | 1     | mg/kg   | 5   | ND |
| Nonabromobiphenyl (NonaBB)          | 1     | mg/kg   | 5   | ND |
| Decabromobiphenyl (DecaBB)          | 1     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether(PBDEs)      | 1000  | mg/kg   | -   | ND |
| Monobromodiphenylether (MonoBDE)    | 1     | mg/kg   | 5   | ND |
| Dibromodiphenylether (DiBDE)        | 1     | mg/kg   | 5   | ND |
| Tribromodiphenylether (TriBDE)      | 1     | mg/kg   | 5   | ND |
| Tetrabromodiphenylether (TetraBDE)  | 1     | mg/kg   | 5   | ND |
| Pentabromodiphenylethers (PentaBDE) | 1     | mg/kg   | 5   | ND |
| Hexabromodiphenylether (HexaBDE)    | 1     | mg/kg   | 5   | ND |
| Heptabromodiphenylether (HeptaBDE)  | 1     | mg/kg   | 5   | ND |
| Octabromodiphenylethers (OctaBDE)   | 1     | mg/kg   | 5   | ND |
| Nonabromodiphenylether (NonaBDE)    | -     | mg/kg   | 5   | ND |
| Decabromodiphenylether (DecaBDE)    | -     | mg/kg   | 5   | ND |
| Dibutyl Phthalate(DBP)              | 1000  | mg/kg   | 50  | ND |
| Benzyl Butyl Phthalate(BBP)         | 1000  | mg/kg   | 50  | ND |



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| Test Item(s)                       | Limit | Unit(s) | MDL | A7 |
|------------------------------------|-------|---------|-----|----|
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000  | mg/kg   | 50  | ND |
| Diisobutyl Phthalate(DIBP)         | 1000  | mg/kg   | 50  | ND |

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

## Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

| Test Item(s) | Unit(s) | MDL | A7 |
|--------------|---------|-----|----|
| Antimony(Sb) | mg/kg   | 10  | ND |

#### **Halogen**

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | CAS No.    | Unit(s) | MDL | A7 |
|--------------|------------|---------|-----|----|
| Fluorine(F)  | 7782-41-4  | mg/kg   | 20  | ND |
| Chlorine(Cl) | 7647-14-5  | mg/kg   | 50  | ND |
| Bromine(Br)  | 7726-95-6  | mg/kg   | 50  | ND |
| lodine(I)    | 12190-71-5 | mg/kg   | 50  | ND |

#### Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

| Test Item(s)                   | CAS No.                     | Unit(s) | MDL | A7 |
|--------------------------------|-----------------------------|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6<br>/134237-51-7 |         |     |    |
|                                | /134237-51-7                | mg/kg   | 20  | ND |
|                                | /25637-99-4                 | 0 0     |     |    |
|                                | /3194-55-6                  |         |     |    |

# **Phthalates**

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

| Test Item(s)                       | CAS No.     | Unit(s) | MDL | A7 |
|------------------------------------|-------------|---------|-----|----|
| Diisononyl Phthalate (DINP)        | 28553-12-0  | mg/kg   | 50  | ND |
| . ,                                | /68515-48-0 |         |     |    |
| Di-n-Octyl Phthalate(DNOP)         | 117-84-0    | mg/kg   | 50  | ND |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0  | mg/kg   | 50  | ND |
| Disodecyi Filinalate (DIDF)        | /68515-49-1 | mg/kg   | 30  | ND |
| Bis(2-methoxyethyl)phthalate(DMEP) | 117-82-8    | mg/kg   | 50  | ND |



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| Test Item(s)                        | CAS No.     | Unit(s) | MDL | A7 |
|-------------------------------------|-------------|---------|-----|----|
| Di-n-Hexyl Phthalate(DnHP)          | 84-75-3     | mg/kg   | 50  | ND |
| Dipentyl Phthalate                  | 131-18-0    | mg/kg   | 50  | ND |
| Diisopentyl Phthalate(DIPP)         | 605-50-5    | mg/kg   | 50  | ND |
| n-pentyl Isopentyl Phthalate(nPIPP) | 776297-69-9 | mg/kg   | 50  | ND |

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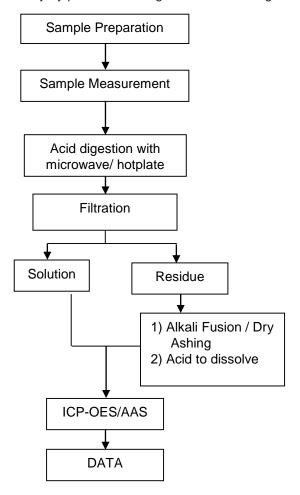
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#### **ATTACHMENTS**

## **Elements Testing Flow Chart**

Name of the person who made testing: Meria Jin/Sielina Song Name of the person in charge of testing: Luna Xu/Bob Zhang

These samples were dissolved totally by pre-conditioning method according to below flow chart.





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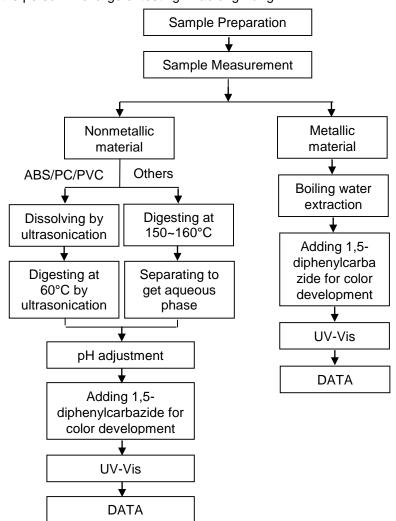


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## **ATTACHMENTS**

# Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang Name of the person in charge of testing: Xiaolong Yang





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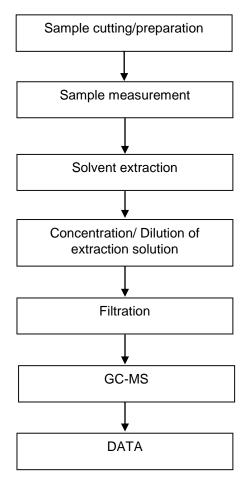


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## **ATTACHMENTS**

## PBBs/PBDEs Testing Flow Chart

Name of the person who made testing: Gary Xu Name of the person in charge of testing: Jason Zhang





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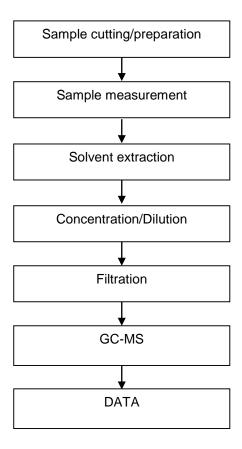


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#### **ATTACHMENTS**

## **Phthalates Testing Flow Chart**

Name of the person who made testing: Iris Han Name of the person in charge of testing: Jason Zhang





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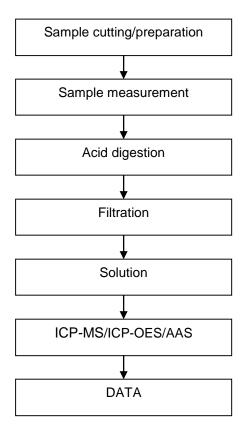


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# **ATTACHMENTS**

# **Elements Testing Flow Chart**

Name of the person who made testing: Meria Jin/Sielina Song Name of the person in charge of testing: Luna Xu/Bob Zhang





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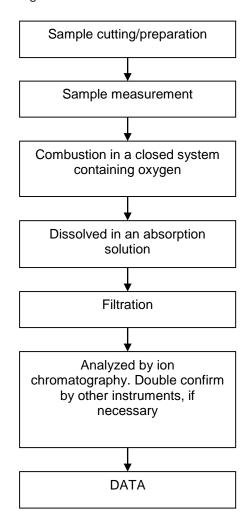


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# **ATTACHMENTS**

# **Halogen Testing Flow Chart**

Name of the person who made testing: Andy Zhang Name of the person in charge of testing: Allen Chen





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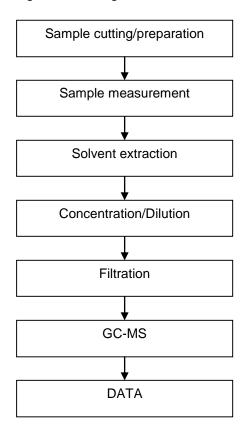


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# **ATTACHMENTS**

# **HBCDD Testing Flow Chart**

Name of the person who made testing: Gary Xu Name of the person in charge of testing: Jason Zhang





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Sample Photo:



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