



230920340938

Test Report

No.: SHAPH24008499001

Date: May 24, 2024

Page 1 of 8

Client Name: Jiangsu HHCK Advanced Materials Co., Ltd

Client Address: 66 Eastern Avenue, Economic & Technical Development Zone, Lianyungang, Jiangsu, China

Sample Name: Epoxy molding compounds

Client Ref. Information: EMG-100-XXX-XXX, EMG-120-XXX-XXX, EMG-200-XXX-XXX, EMG-250-XXX-XXX, EMG-300-XXX-XXX, EMG-350-XXX-XXX, EMG-400-XXX-XXX, EMG-400SV-XXX-XXX, EMG-430-XXX-XXX, EMG-450-XXX-XXX, EMG-460-XXX-XXX, EMG-480-XXX-XXX, EMG-500-XXX-XXX, EMG-550-XXX-XXX, EMG-580-XXX-XXX, EMG-600-XXX-XXX, EMG-600S-XXX-XXX, EMG-620-XXX-XXX, EMG-630-XXX-XXX, EMG-650-XXX-XXX, EMG-660-XXX-XXX, EMG-680-XXX-XXX, EMG-700-XXX-XXX, EMG-760-XXX-XXX, EMG-800-XXX-XXX, EMG-900-XXX-XXX, EMG-950-XXX-XXX

Production date: April 2024

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

SGS Job No.: NJIN2404000644PL01

Sample Receiving Date: Apr 27, 2024

Testing Period: Apr 27, 2024 ~ May 17, 2024

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 (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Lilac Wei 魏文凤
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	SHA24-0084990-0001.C001	Black 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 (PBB), Polybrominated diphenyl ethers (PBDE), 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/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	001
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	001
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	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.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

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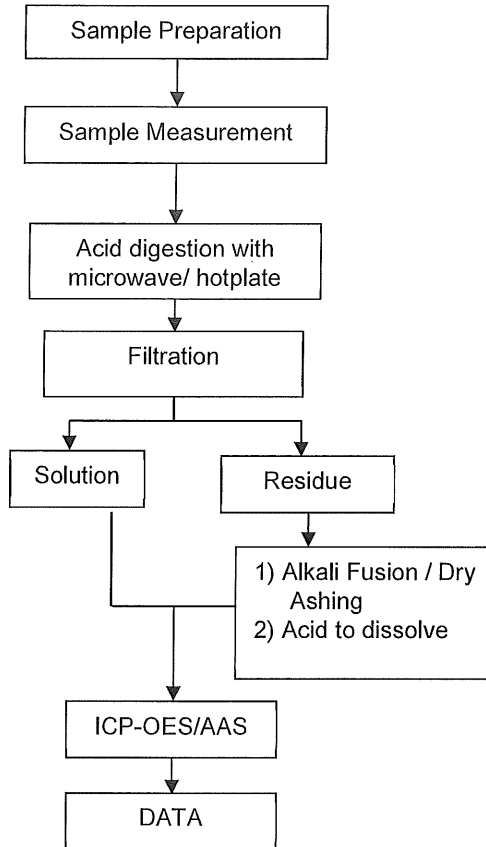
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Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: John Cheng

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



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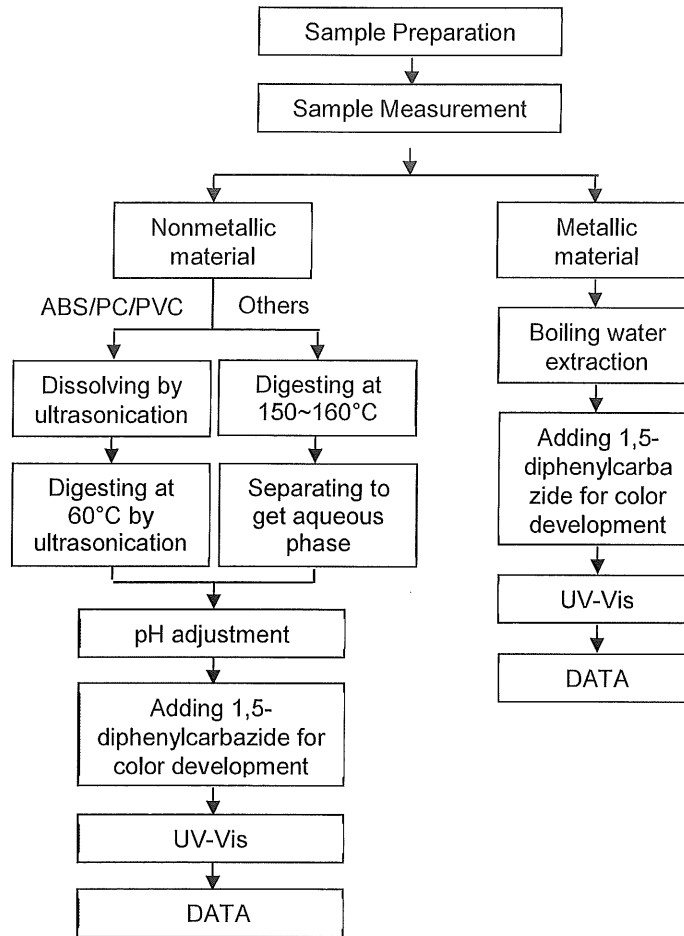
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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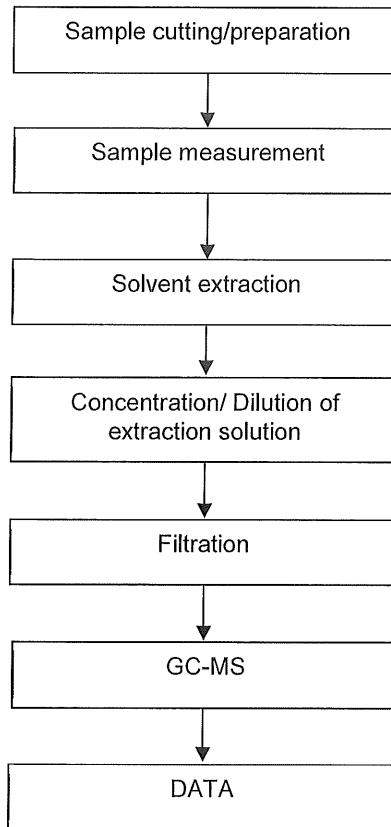
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PBB/PBDE Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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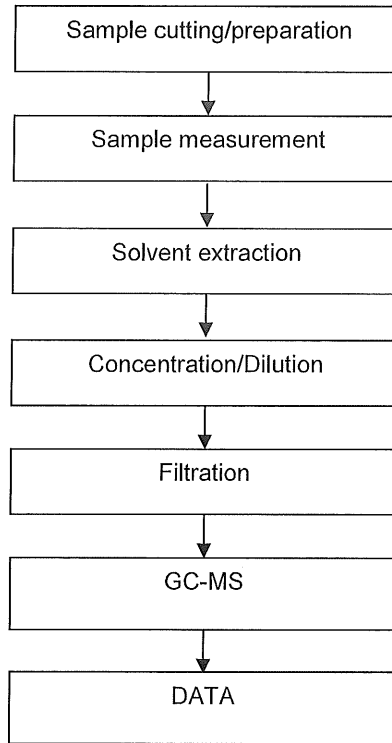
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Phthalates Testing Flow Chart

Name of the person who made testing: Sherry Shi

Name of the person in charge of testing: Carol Cui



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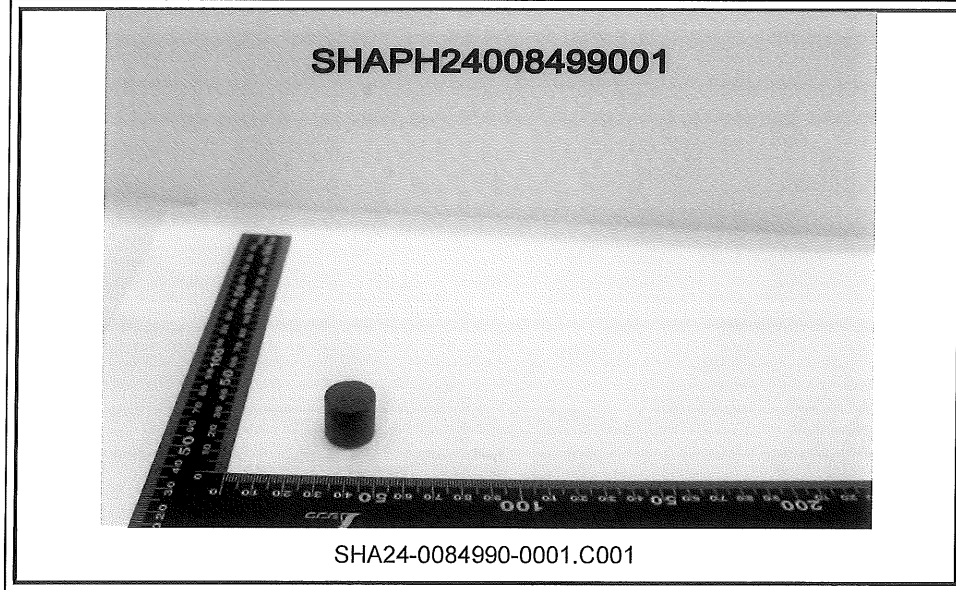
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230920340938

Test Report

No.: SHAPH24008499003

Date: May 24, 2024

Page 1 of 4

Client Name: Jiangsu HHCK Advanced Materials Co., Ltd

Client Address: 66 Eastern Avenue, Economic & Technical Development Zone, Lianyungang, Jiangsu, China

Sample Name: Epoxy molding compounds

Client Ref. Information: EMG-100-XXX-XXX, EMG-120-XXX-XXX, EMG-200-XXX-XXX, EMG-250-XXX-XXX, EMG-300-XXX-XXX, EMG-350-XXX-XXX, EMG-400-XXX-XXX, EMG-400SV-XXX-XXX, EMG-430-XXX-XXX, EMG-450-XXX-XXX, EMG-460-XXX-XXX, EMG-480-XXX-XXX, EMG-500-XXX-XXX, EMG-550-XXX-XXX, EMG-580-XXX-XXX, EMG-600-XXX-XXX, EMG-600S-XXX-XXX, EMG-620-XXX-XXX, EMG-630-XXX-XXX, EMG-650-XXX-XXX, EMG-660-XXX-XXX, EMG-680-XXX-XXX, EMG-700-XXX-XXX, EMG-760-XXX-XXX, EMG-800-XXX-XXX, EMG-900-XXX-XXX, EMG-950-XXX-XXX

Production date: April 2024

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

SGS Job No.: NJIN2404000644PL02
Sample Receiving Date: Apr 27, 2024
Testing Period: Apr 27, 2024 ~ May 17, 2024
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).



Signed for and on behalf of
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Lilac Wei 魏文凤
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Member of the SGS Group (SGS SA)

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	SHA24-0084990-0001.C001	Black solid

Remarks:

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

Halogen

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

Test Item(s)	Unit(s)	MDL	001
Fluorine(F)	mg/kg	10	ND
Chlorine(Cl)	mg/kg	10	29
Bromine(Br)	mg/kg	10	ND
Iodine(I)	mg/kg	10	ND

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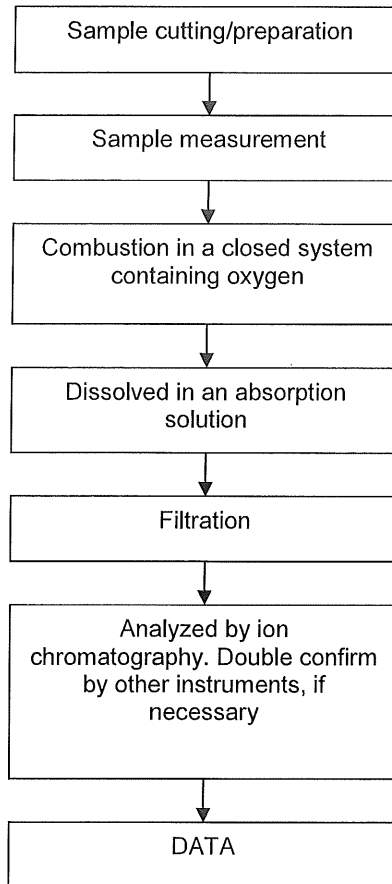
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Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Gordon Mu



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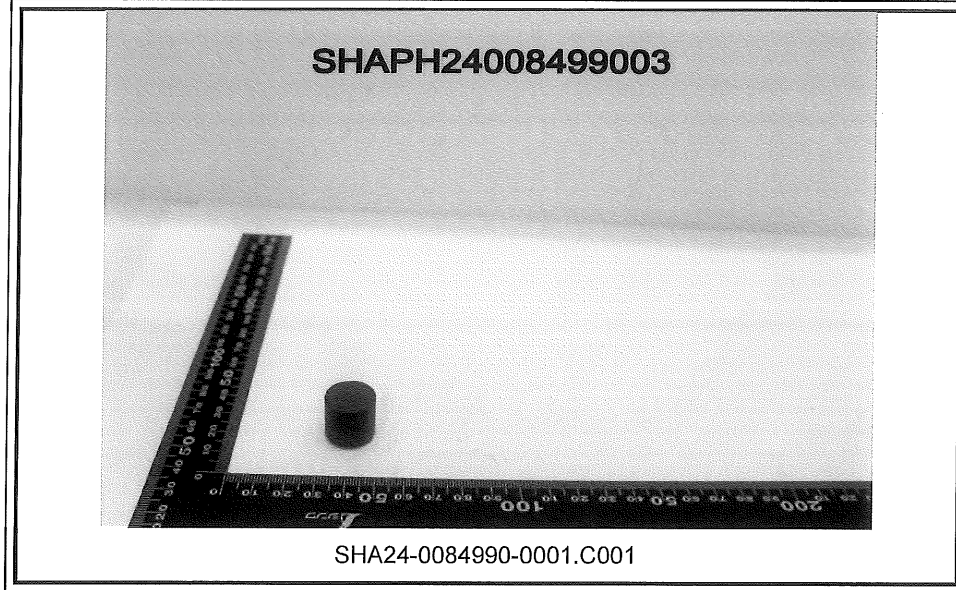
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