

To: NXP Manufacturing (Thailand) Ltd

Content of certain hazardous substances

We hereby confirm that the following hazardous substances listed on the attached sheet aren't used intentionally as ingredient(s) for the following product manufactured by Shin-Etsu Electronics (Malaysia) Sdn. Bhd. except for the substance(s) listed on the following page(s).

Moreover, the contents as impurities of RoHS substances don't exceed their threshold limits.

The analysis results of one optional lot are attached.

1. Product : KMC-184-8
2. Hazardous substance : Attached

This investigation is conducted only for the product itself.
Packing materials are out of scope of the investigation.



Takayuki Aoki
Managing Director
Shin-Etsu Electronics (Malaysia) Sdn. Bhd.

Investigation Result

Product	Contained Hazardous Substance	Content (%)
KMC-184-8	Bromine compounds	ca. 2
	Antimony compounds	ca. 2

Environmental Hazardous Substances

Substances		Threshold Limit (ppm)
Heavy metals	Cadmium and its compounds	100
	Lead and its compounds	1000
	Mercury and its compounds	1000
	Hexavalent chromium compounds	1000
Brominated organic compounds	Polybrominated biphenyls(PBB)	1000
	Polybrominated diphenylethers(PBDE)	1000
Bis (2-ethylhexyl) phthalate (DEHP)		1000
Butyl benzyl phthalate (BBP)		1000
Dibutyl phthalate (DBP)		1000
Diisobutyl phthalate (DIBP)		1000
Halogen and its compounds (F, Cl, Br, I except for above mentioned)		
Antimony and its compounds		
Beryllium and its compounds		

**TEST REPORT:**

No. CPSA/220997119-CB02336
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 19-September-2022**SHIN-ETSU ELECTRONICS (M) SDN BHD**

LOT 50, JALAN SERENDAH 26/17,
HICOM INDUSTRIAL ESTATE,
40400 SHAH ALAM, SELANGOR

The following sample(s) was/were submitted and identified by applicant as:

SAMPLE DESCRIPTION : KMC-184-8
SAMPLE RECEIVED : 09-September-2022
TESTING PERIOD : 09-September-2022 to 19-September-2022

TEST REQUESTED : Selected test(s) as requested by customer
TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-
TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14



Test Report Form No.: SGS/TR/CP/001, Ver. 2.0, Effective Date: 15/03/2021

Page 1 of 6

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SGS (Malaysia) Sdn.Bhd.
(Company No. 10871-T)

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**TEST REPORT:**

No. CPSA/220997119-CB02336
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 19-September-2022**TEST RESULTS:****Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	N.D.	2	Max 100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	N.D.	2	Max 1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	N.D.	2	Max 1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	N.D.	8	Max 1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	Max 1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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**TEST REPORT:**

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REPORTED DATE: 19-September-2022**TEST RESULTS:****Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	Max 1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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**TEST REPORT:**

No. CPSA/220997119-CB02336
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 19-September-2022

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) - = Not regulated
 - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
 - (f) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 g/cm². 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 g/cm²). The coating is considered a non-CrVI based coating.
 - c. The result between 0.10 g/cm² and 0.13 g/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- (g) 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.

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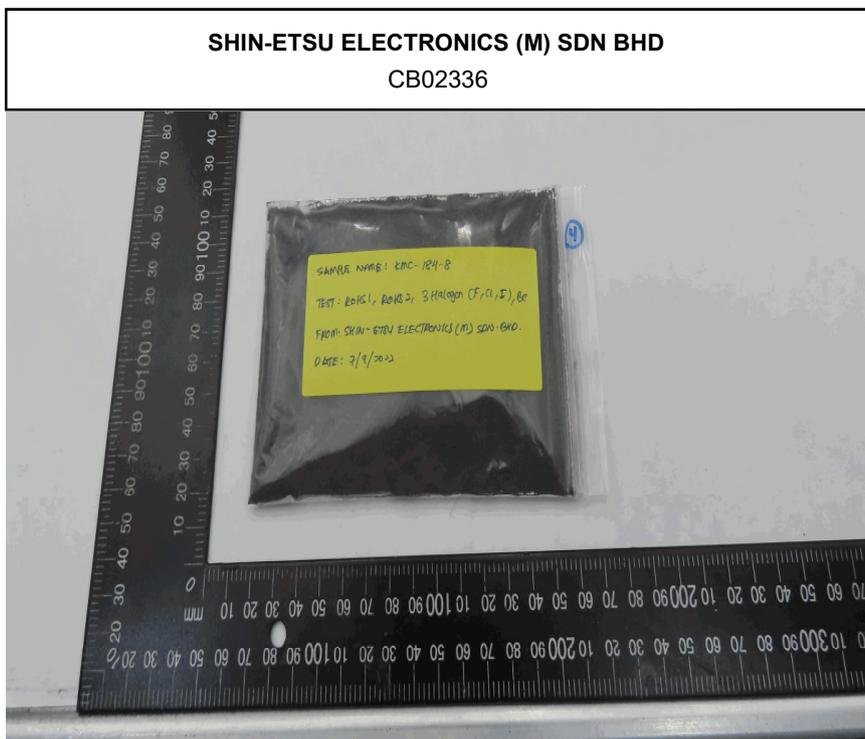
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TEST REPORT:

No. CPSA/220997119-CB02336
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 19-September-2022**Test Part Description :**

Sample Description: -PLEASE REFER TO PAGE 1-



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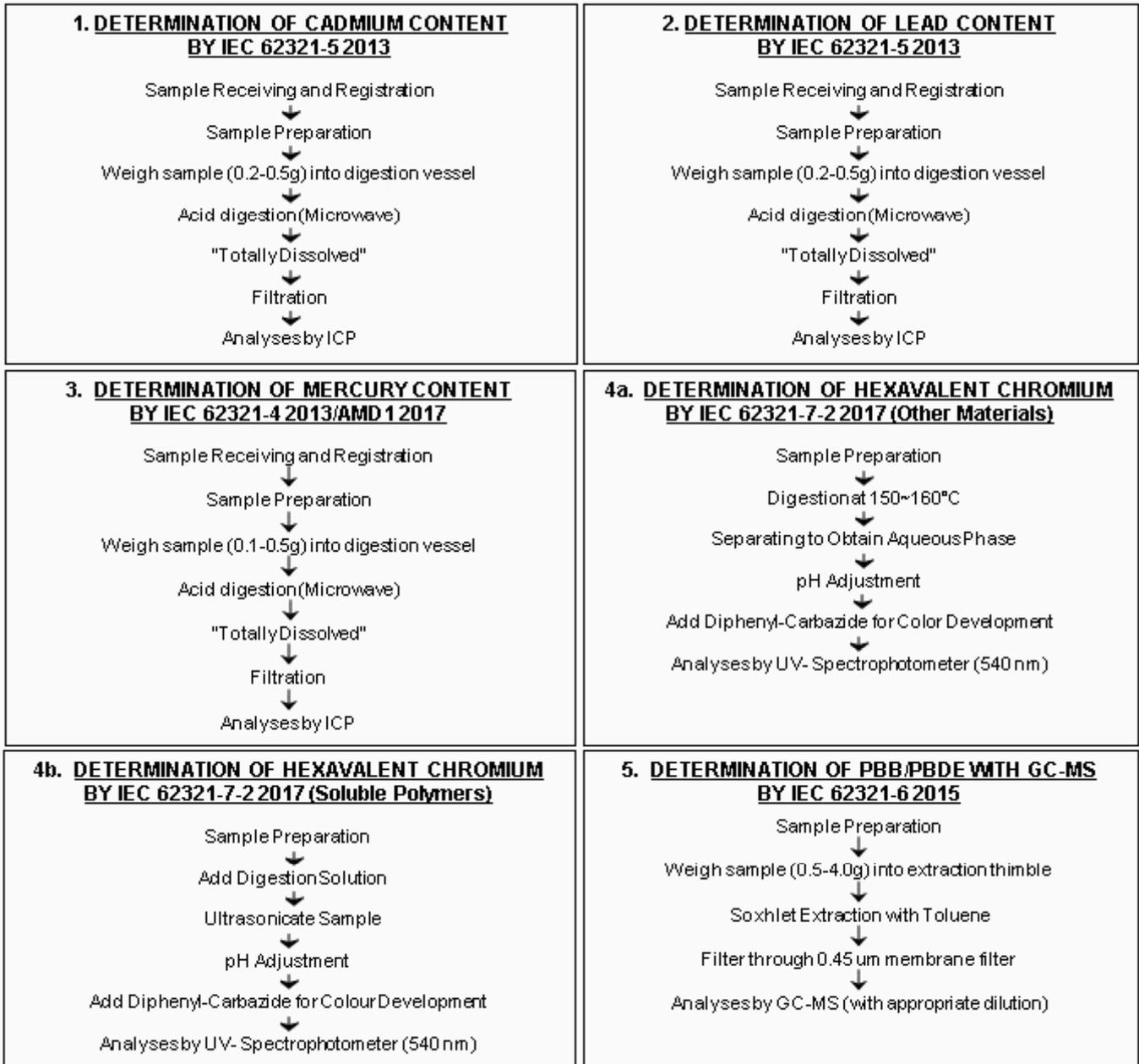
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TEST REPORT:

 No. CPSA/220997119-CB02336
 Job Ref. C&P/2022-09-09-012

REPORTED DATE: 19-September-2022

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*** End of test report ***

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**TEST REPORT:**

No. CPSA/220996818-CB02337
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 13-September-2022**SHIN-ETSU ELECTRONICS (M) SDN BHD**

LOT 50, JALAN SERENDAH 26/17,
HICOM INDUSTRIAL ESTATE,
40400 SHAH ALAM, SELANGOR

The following sample(s) was/were submitted and identified by applicant as:

SAMPLE DESCRIPTION : KMC-184-8
SAMPLE RECEIVED : 09-September-2022
TESTING PERIOD : 09-September-2022 to 13-September-2022

TEST REQUESTED : Selected test(s) as requested by customer
TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-
TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

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**TEST REPORT:**

No. CPSA/220996818-CB02337
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 13-September-2022**TEST RESULTS:****Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Di(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000

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**TEST REPORT:**

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REPORTED DATE: 13-September-2022

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) - = Not regulated
 - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
 - (f) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 g/cm². 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 g/cm²). The coating is considered a non-CrVI based coating.
 - c. The result between 0.10 g/cm² and 0.13 g/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- (g) 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.

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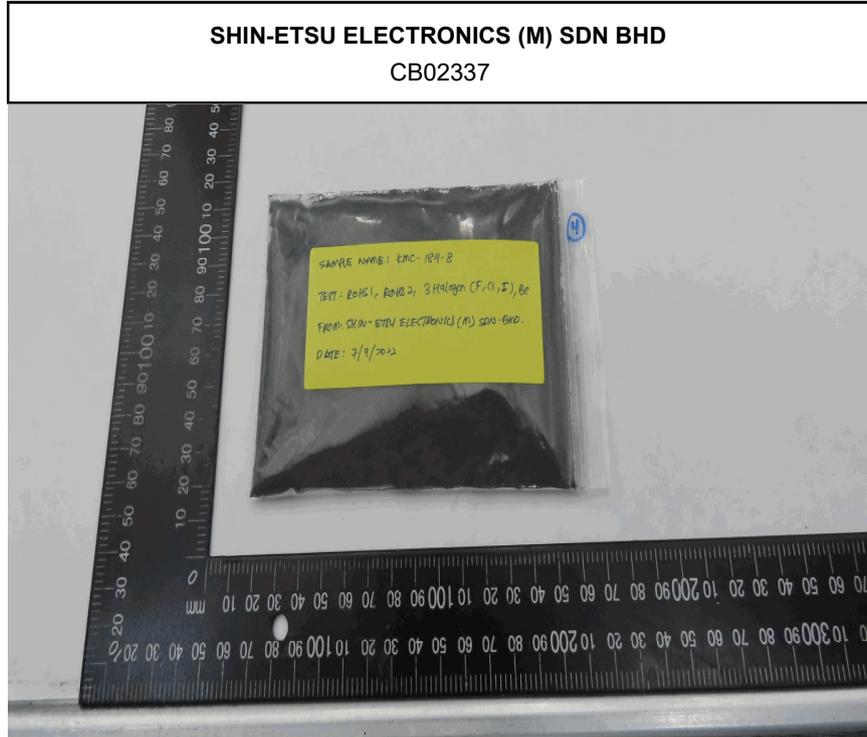
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TEST REPORT:

No. CPSA/220996818-CB02337
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 13-September-2022**Test Part Description :**

Sample Description: -PLEASE REFER TO PAGE 1-



SGS authenticate the photo on original report only

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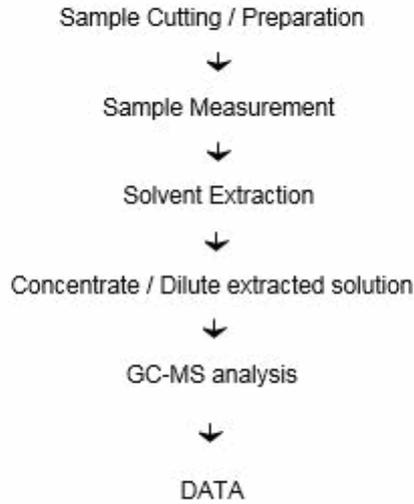
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TEST REPORT:

No. CPSA/220996818-CB02337
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 13-September-2022

DETERMINATION OF PHTHALATES WITH GC-MS
BY IEC 62321-8:2017



SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14



Test Report Form No.: SGS/TR/CP/001, Ver. 2.0, Effective Date: 15/03/2021

*** End of test report ***

Page 5 of 5

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**TEST REPORT**

No. CPSA/220997212-CB02338

REPORTED DATE: 21-September-2022

Job Ref. C&P/2022-09-09-012

SHIN-ETSU ELECTRONICS (M) SDN BHD

LOT 50, JALAN SERENDAH 26/17,
HICOM INDUSTRIAL ESTATE,
40400 SHAH ALAM, SELANGOR

The following sample(s) was/were submitted and identified by applicant as:

Sample Description : KMC-184-8
Sample Received : 09-September-2022
Testing Period : 09-September-2022 to 20-September-2022

Test Requested : Selected test(s) as requested by customer

Test Method : -PLEASE REFER TO NEXT PAGE(S)-

Test Results : -PLEASE REFER TO NEXT PAGE(S)-

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SGS (MALAYSIA) SDN BHD

Chee


CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14

Test Report Form No.: SGS/TR/CP/002, Ver: 1.0, Effective Date: 04/02/2021

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**TEST REPORT**

No. CPSA/220997212-CB02338

REPORTED DATE: 21-September-2022

Job Ref. C&P/2022-09-09-012

Test results by chemical method :**Test Part Description :**

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Chlorine content.	60	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Iodine content.	N.D.	50

Note : (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

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SGS (MALAYSIA) SDN BHD


CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14

Test Report Form No.: SGS/TR/CP/002, Ver: 1.0, Effective Date: 04/02/2021

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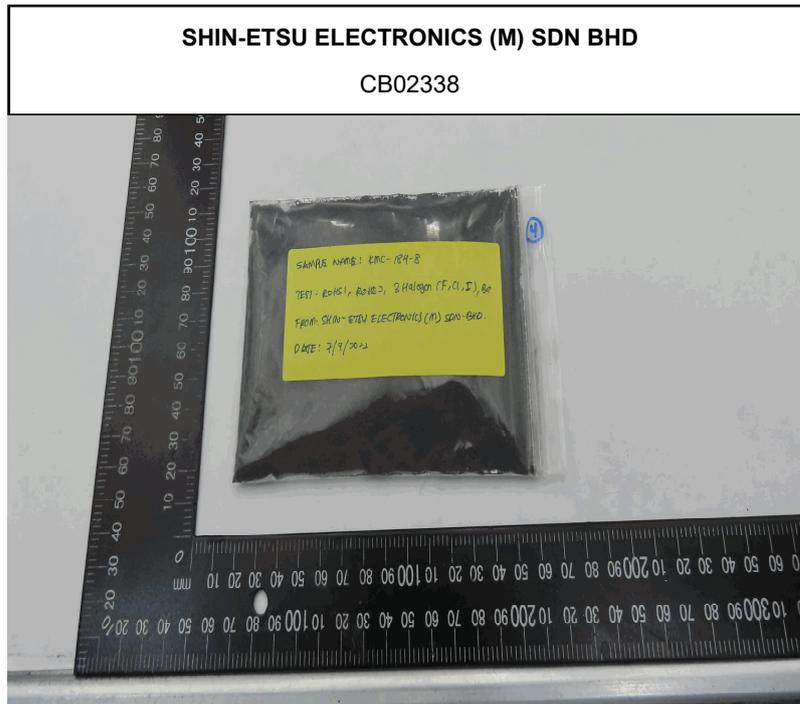
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TEST REPORT

No. CPSA/220997212-CB02338
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 21-September-2022**Test Part Description :**

Sample Description: -PLEASE REFER TO PAGE 1-



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CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14

Test Report Form No.: SGS/TR/CP/002, Ver. 1.0, Effective Date: 04/02/2021

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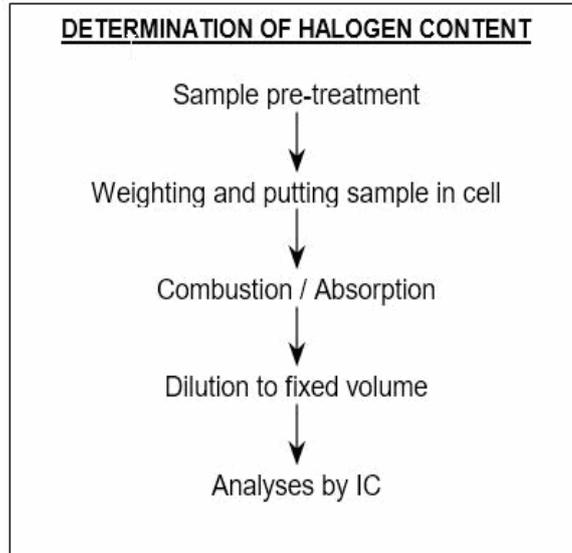
TEST REPORT

No. CPSA/220997212-CB02338

REPORTED DATE: 21-September-2022

Job Ref. C&P/2022-09-09-012

DETERMINATION OF HALOGEN CONTENT



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SGS (MALAYSIA) SDN BHD




CHEE TUCK CHOON
SECTION HEAD
IKM NO. M/3983/6401/12/14

Test Report Form No.: SGS/TR/CP/002, Ver. 1.0, Effective Date: 04/02/2021

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**TEST REPORT:**

No. CPSA/220997627-CB02339
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 28-September-2022**SHIN-ETSU ELECTRONICS (M) SDN BHD**

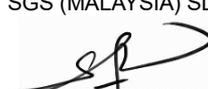
LOT 50, JALAN SERENDAH 26/17,
HICOM INDUSTRIAL ESTATE,
40400 SHAH ALAM, SELANGOR

The following sample(s) was/were submitted and identified by applicant as:

SAMPLE DESCRIPTION : KMC-184-8
SAMPLE RECEIVED : 09-September-2022
TESTING PERIOD : 09-September-2022 to 19-September-2022

TEST REQUESTED : Selected test(s) as requested by customer
TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-
TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-
REMARKS : 1) This report supersedes report no. CPSA/220997120-CB02339.

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


TAY SIAM PINE
TECHNICAL MANAGER
IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

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SGS (Malaysia) Sdn.Bhd.
(Company No. 10871-T)

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t +6(03) 7627 0080 f +6 (03) 7627 0082 www.sgs.com

**TEST REPORT:**

No. CPSA/220997627-CB02339
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 28-September-2022

TEST RESULTS BY CHEMICAL METHOD:**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Beryllium (Be)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES.	N.D.	2

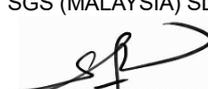
Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) Negative = Undetectable / Positive = Detectable

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TAY SIAM PINE
TECHNICAL MANAGER
IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

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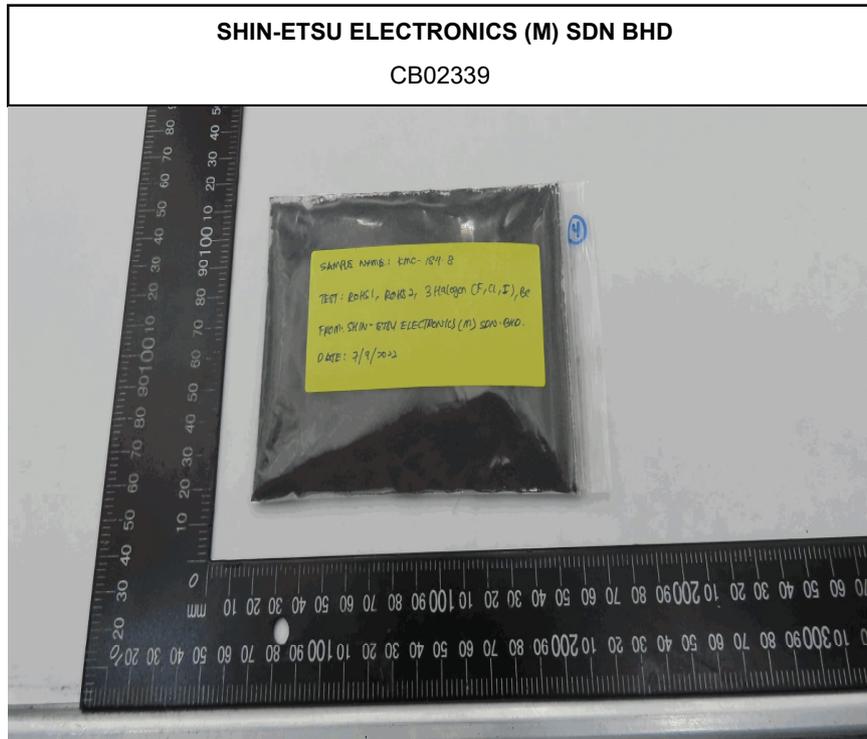
TEST REPORT:

No. CPSA/220997627-CB02339
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 28-September-2022

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-



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TAY SIAM PINE
TECHNICAL MANAGER
IKM No. M/3452/6047/11/12



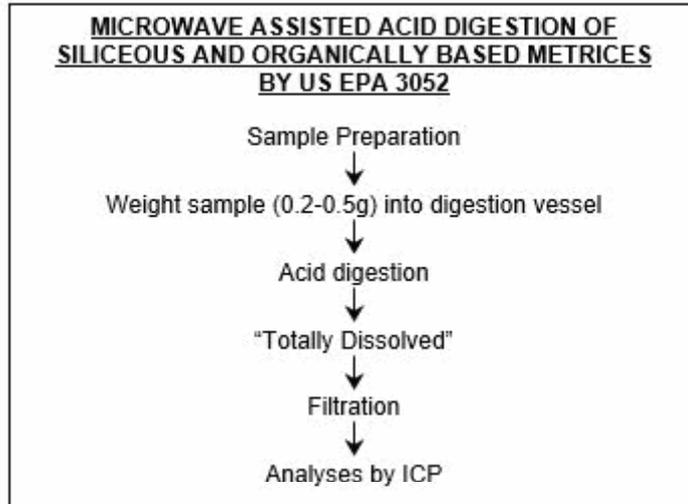
Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

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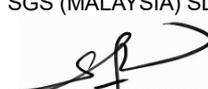
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TEST REPORT:

No. CPSA/220997627-CB02339
Job Ref. C&P/2022-09-09-012

REPORTED DATE: 28-September-2022

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


TAY SIAM PINE
TECHNICAL MANAGER
IKM No. M/3452/6047/11/12



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