

# Information of substances

We hereby confirm that the following substance(s) is (are) not used intentionally as the ingredient(s) for the following product(s). The analysis results of one optional lot are attached.

1. Product : KMC-3510MX1 , KMC-3580P-14F

 $2. \ {\bf Substance: Attached}$ 

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



	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	Polybrominated biphenyls(PBB)	1000
compounds	Polybrominated diphenylethers(PBDE)	1000
Bis (2-ethylhexyl) pht	1000	
Butyl benzyl phthalat	e (BBP)	1000
Dibutyl phthalate (DI	3P)	1000
Diisobutyl phthalate	(DIBP)	1000
Hexabromocyclododec	ane (HBCDD)	
Perfluorooctane sulfor	nates (PFOS)	
Perfluorooctanoic Acid	d (PFOA)	
Halogen and its comp	ounds (F, Cl, Br, I except for above mentione	d)
Antimony and its com	pounds	

# Environmental Hazardous Substances



# No. CPSA/250354907-CB74241 Job Ref : C&P/2025-03-14-023

REPORTED DATE: 25 Mar 2025

#### 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-3580P-14F
SAMPLE RECEIVED	: 14 Mar 2025
TESTING PERIOD	:14 Mar 2025 to 24 Mar 2025
TEST REQUESTED	Selected test(s) as requested by customer
TEST REQUESTED TEST METHOD	Selected test(s) as requested by customer - PLEASE REFER TO NEXT PAGE(S) -

SIGNED FOR AND ON BEHALF OF

SGS (MALAYSIA) SDN BHDIA SGS 3 10871-1 TAY SIAM PINE TECHNICAL MANAGER

IKM NO. M/3452/6047/11/12

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

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# No. CPSA/250354907-CB74241

Job Ref : C&P/2025-03-14-023

REPORTED DATE: 25 Mar 2025

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.	-	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	۳

SIGNED FOR AND ON BEHALF OF

SGS (MALAYSIA) SDN BH Ş SGS 53 10871-T TAY SIAM PINE

TECHNICAL MANAGER IKM NO. M/3452/6047/11/12

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# No. CPSA/250354907-CB74241

Job Ref : C&P/2025-03-14-023

REPORTED DATE: 25 Mar 2025

TEST RESULTS:

# Test Part Description

-PLEASE REFER TO PAGE 1-Sample Description:

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.	-	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	-

(a) mg/kg = ppm ; (0.1wt% = 1000ppm) Note :

(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) IEC 62321 series is equivalent to EN 62321 series

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TECHNICAL MANAGER IKM NO. M/3452/6047/11/12

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

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No. CPSA/250354907-CB74241 Job Ref : C&P/2025-03-14-023

REPORTED DATE: 25 Mar 2025

Test Part Description :

Sample Description:

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SGS (MALAYSIA) SDN BHDIA SGS 3 10871-1 TAY SIAM PINE TECHNICAL MANAGER -IKM NO. M/3452/6047/11/12

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

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No. CPSA/250354907-CB74241

Job Ref : C&P/2025-03-14-023

REPORTED DATE: 25 Mar 2025

Job Ref : C&P/2025-03-14	-023 REPORTED DATE: 25 Marz
1. <u>DETERMINATION OF CADMIUM CONTENT</u> BY IEC 62321-5 2013	2. <u>DETERMINATION OF LEAD CONTENT</u> BY IEC 62321-52013
Sample Receiving and Registration Sample Preparation Weigh sample (0.2-0.5g) into digestion vessel Acid digestion (Microwave) "Totally Dissolved" Filtration Analyses by ICP	Sample Receiving and Registration Sample Preparation Weigh sample (0.2-0.5g) into digestion vessel Acid digestion (Microwave) "Totally Dissolved" Filtration Analyses by ICP
3. <u>DETERMINATION OF MERCURY CONTENT</u> BY IEC 62321-4 2013/AMD 1 2017 Sample Receiving and Registration Sample Preparation Weigh sample (0.1-0.5g) into digestion vessel Acid digestion (Microwave) "Totally Dissolved" Filtration Analyses by ICP	4a. <u>DETERMINATION OF HEXAVALENT CHROMIUM</u> BY IEC 62321-7-2 2017 (Other Materials) Sample Preparation Digestion at 150~160°C Separating to Obtain Aqueous Phase pH Adjustment Add Diphenyl-Carbazide for Color Development Analyses by UV- Spectrophotometer (540 nm)
4b. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-22017 (Soluble Polymers) Sample Preparation Add Digestion Solution Ultrasonicate Sample pH Adjustment Add Diphenyl-Carbazide for Colour Development Analyses by UV- Spectrophotometer (540 nm)	5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015 Sample Preparation Weigh sample (0.5-4.0g) into extraction thimble Soxhiet Extraction with Toluene Filter through 0.45 um membrane filter Analyses by GC-MS (with appropriate dilution)

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SGS (MALAYSIA) SDN BHDIA Q SGS BHL 33 10871-1 TAY SIAM PINE TECHNICAL MANAGER IKM NO. M/3452/6047/11/12

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

\*\*\* End of test report \*\*\*

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# No. CPSA/250455735-CB74242 Job Ref : C&P/2025-03-14-023

REPORTED DATE: 07 Apr 2025

#### 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-3580P-14F
SAMPLE RECEIVED	: 14 Mar 2025
TESTING PERIOD	:14 Mar 2025 to 21 Mar 2025
TEST REQUESTED	Selected test(s) as requested by customer
TEST REQUESTED TEST METHOD	<ul> <li>Selected test(s) as requested by customer</li> <li>PLEASE REFER TO NEXT PAGE(S) -</li> </ul>

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SGS (MALAYSIA) SDN BHD SGS 55 10871-T TAY SIAM PINE TECHNICAL MANAGER 4

IKM NO. M/3452/6047/11/12

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

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# No. CPSA/250455735-CB74242 Job Ref : C&P/2025-03-14-023

**REPORTED DATE:** 07 Apr 2025

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

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) IEC 62321 series is equivalent to EN 62321 series

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IKM NO. M/3452/6047/11/12

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

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No. CPSA/250455735-CB74242 Job Ref : C&P/2025-03-14-023

REPORTED DATE: 07 Apr 2025

**Test Part Description :** Sample Description:

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REPORTED DATE: 07 Apr 2025



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IKM NO. M/3452/6047/11/12

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#### No. CPSA/250354967-CB74246

REPORTED DATE: 25 Mar 2025

#### 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-3580P-14F
JOB REF.	: C&P/2025-03-14-023
SAMPLE RECEIVED	: 14 Mar 2025
TESTING PERIOD	: 14 Mar 2025 to 24 Mar 2025
TEST REQUESTED	Selected test(s) as requested by customer
TEST METHOD	: -PLEASE REFER TO NEXT PAGE(S)-
TEST RESULTS	
TEST RESULTS	: -PLEASE REFER TO NEXT PAGE(S)-

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SGS (MALAYSIA) SDN BHD SGS V Ses 10871-T 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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No. CPSA/250354967-CB74246

REPORTED DATE: 25 Mar 2025

TEST RESULTS:

Test Part Description

Sample Description:

-PLEASE REFER TO PAGE 1-

Optional: RoHS Directive 2011/65/EU, priority substances

Test Parameter(s):	Unit	Test Method	Result	MDL
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4, 3194-55-6(134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	In-house method, SGS-TM-RSTS-O-012, with reference to IEC 62321-6:2015. Analysis was performed by GCMS	N.D.	5

Note: (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(b) N.D. = Not Detected

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SGS (MALAYSIA) SDN BHD Ŷ SGS Ses 10871-1 TAY SIAM PINE TECHNICAL MANAGER

IKM No. M/3452/6047/11/12

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No. CPSA/250354967-CB74246

REPORTED DATE: 25 Mar 2025

# Test Part Description :

Sample Description:

-PLEASE REFER TO PAGE 1-



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SGS (MALAYSIA) SDN BHD V SGS es 10871-TAY SIAM PINE

TECHNICAL MANAGER IKM No. M/3452/6047/11/12

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## No. CPSA/250354967-CB74246

REPORTED DATE: 25 Mar 2025

# **DETERMINATION OF HBCDD CONTENT** Sample preparation Weigh sample (0.5 - 4.0g) into extraction thimble Solvent extraction with Toluene Filter through 0.45 µm membrane filter Analysis by GC-MS (with appropriate dilution)

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SGS (MALAYSIA) SDN BHDIA SGS V SBS 10871-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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No. CPSA/250354914-CB74247 Job Ref. C&P/2025-03-14-023 REPORTED DATE: 25-March-2025

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-3580P-14F
Sample Received	:	14-March-2025
Testing Period	:	14-March-2025 to 24-March-2025
Test Requested	:	Selected test(s) as requested by customer
Test Requested Test Method	:	Selected test(s) as requested by customer -PLEASE REFER TO NEXT PAGE(S)-

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SHLAYSIA) V SGS BHB Sel Sel '10871-T TAY SIAM PINE TECHNICAL MANAGER IKM NO. M/3452/6047/11/12

Test Report Form No.: SGS/TR/CP/004, Ver: 1,0, Effective Date: 04/02/2021

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No. CPSA/250354914-CB74247 Job Ref. C&P/2025-03-14-023 REPORTED DATE: 25-March-2025

#### Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

Test Method : With reference to CEN/TS 15968:2010. Analysis was performed by LC-MS

Test Parameter(s):	Result (%)	Max. Limit (µg/m²) (Textile/Coated material)	Max.Limit(%) (Semi-finished Product/Article)	Max. Limit(%) (Substances/ in mixtures)
Perfluorooctanesulfonic acid (PFOS)	N.D.	1	0.1	0.001
Perfluorooctanoic acid (PFOA) (CAS No. 335-67-1)	N.D.	1	/	1
Conclusion	PASS			

Note: (a) N.D. = Not Detected

(b) \* = exceeds the limit

(c) Detection limit = 1 µg/m<sup>2</sup> for Textile / Coated Material

= 0.001% for Plastic, substances or mixtures

(d) Recommended requirement with reference to Commission Regulation (EU) 2019/1021 on Persistent Organic Pollutant.

(e) PFOS refers to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

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WHAYSIA) SGS S 10871-TAY SIAM PINE TECHNICAL MANAGER

IKM NO. M/3452/6047/11/12

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REPORTED DATE: 25-March-2025



### TEST REPORT

No. CPSA/250354914-CB74247 Job Ref. C&P/2025-03-14-023

## Test Part Description :

Sample Description

-PLEASE REFER TO PAGE 1-



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No. CPSA/250354914-CB74247 Job Ref. C&P/2025-03-14-023 REPORTED DATE: 25-March-2025

#### Analytical flow chan of PFOS and PFOA



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No. CPSA/250354804-CB74243 Job Ref. C&P/2025-03-14-023 REPORTED DATE: 24-March-2025

# 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-3580P-14F
Sample Received	:	14-March-2025
Testing Period	:	14-March-2025 to 24-March-2025
	(fair) at print ray of a	
Test Requested	:	Selected test(s) as requested by customer
Test Requested Test Method	:	Selected test(s) as requested by customer -PLEASE REFER TO NEXT PAGE(S)-

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

AVSIA) SGS Sec ..... . . . . . 10871-TAY SIAM PINE TECHNICAL MANAGER

TECHNICAL MANAGER

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

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# No. CPSA/250354804-CB74243 Job Ref. C&P/2025-03-14-023

REPORTED DATE: 24-March-2025

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.	51	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Bromine content.	N.D.	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for lodine content.	N.D.	50

Note : (a) mg/kg = ppm

(b) N.D. = Not Detected(c) MDL = Method Detection Limit

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NAVSIA) SGS SO . . . . . . . . . . . . . . . . . . . 10871-1 TAY SIAM PINE TECHNICAL MANAGER IKM NO. M/3452/6047/11/12

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No. CPSA/250354804-CB74243 Job Ref. C&P/2025-03-14-023 REPORTED DATE: 24-March-2025

#### Test Part Description :

Sample Description:

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#### No. CPSA/250354965-CB74244

REPORTED DATE: 25 Mar 2025

#### 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-3580P-14F
JOB REF.	:	C&P/2025-03-14-023
SAMPLE RECEIVED	:	14 Mar 2025
TESTING PERIOD	:	14 Mar 2025 to 24 Mar 2025
TEST REQUESTED	:	Selected test(s) as requested by customer
TEST METHOD	IETHOD : -PLEASE REFER TO NEXT PAGE(S)-	
TEST RESULTS	: -PLEASE REFER TO NEXT PAGE(S)-	

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## No. CPSA/250354965-CB74244

REPORTED DATE: 25 Mar 2025

# TEST RESULTS:

**Test Part Description** 

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Antimony (Sb)	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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Test Part Description :

Sample Description:

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TECHNICAL MANAGER IKM No. M/3452/6047/11/12

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