

TEST REPORT:

No. CRSSA/200640027-CA38602

Job Ref. CRS/2020-05-27-024

REPORTED DATE: 11/06/2020

MALAYSIAN SH ELECTRONICS SDN BHD

 LOT 5, 7 & 9, JLN RAGUM 15/17, 40200
 SHAH ALAM

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

SAMPLE DESCRIPTION : Ag FINISHED LEADFRAME ON A194 (ITEM #8 IN APPENDIX 2020)

SAMPLE RECEIVED : 27/05/2020

TESTING PERIOD : 27/05/2020 to 10/06/2020

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

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


Test Report Form No.: SGS/TR/CRS/013, Ver: 7.0, Effective Date: 03/03/2020

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TEST REPORT:

No. CRSSA/200640027-CA38602

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Job Ref. CRS/2020-05-27-024

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 Item(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) | µg/cm² | With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. | N.D. | 0.10 | - |
| 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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 SGS (Malaysia) Sdn.Bhd.
 (Company No. 10871-T)

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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 Item(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 | - |

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) - = Not regulated

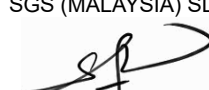
(e) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI.

b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating.

c. The result between 0.10 µg/cm² and 0.13 µg/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.

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TEST RESULTS:
Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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

| Test Item(s): | Unit | Test Method | Result | MDL |
|--|-------|--|--------|-----|
| Hexabromocyclododecane (HBCDD)(CAS No.: 3194-55-6,25637-99-4 | 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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TEST RESULTS:
Test Part Description

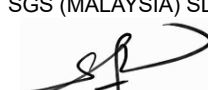
Sample Description: -PLEASE REFER TO PAGE 1-

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

| Test Item(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 |
| 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 |
| 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 |
| 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 ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) - = Not regulated
 - (e) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the RoHS Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
 - (f) 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.
 - (g) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
 - (h) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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REPORTED DATE: 11/06/2020

TEST RESULTS BY CHEMICAL METHOD:
Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

| Test Item(s): | Unit | Test Method | Result | MDL |
|-----------------------|-------|---|--------|-----|
| Beryllium (Be) | mg/kg | With reference to EPA Method 3051A, and performed by ICP-OES. | N.D. | 2 |
| Antimony (Sb) | mg/kg | With reference to EPA Method 3051A, and performed by ICP-OES. | N.D. | 2 |
| Halogen | - | - | - | - |
| 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. | N.D. | 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 Iodine content. | N.D. | 50 |

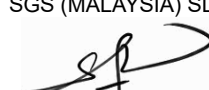
Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) Negative = Undetectable / Positive = Detectable

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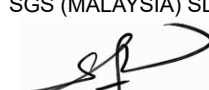
TEST RESULTS BY CHEMICAL METHOD:
Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

| Test Item(s): | Unit | Test Method | Result | MDL |
|--|-------|---|--------|-----|
| Phthalates | - | - | - | - |
| Dibutyl phthalate (DBP) (CAS No. 84-74-2) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 30 |
| Di(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 30 |
| Di-n-octyl phthalate (DNOP) (CAS No. 117-84-0) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 30 |
| Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 100 |
| Di-isodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 100 |
| Benzyl butyl phthalate (BBP) (CAS No. 85-68-7) | mg/kg | With reference to EN14372:2004, determination of phthalates by GC-MS. | N.D. | 30 |

- 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) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the RoHS Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
(e) 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.
(f) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
(g) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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TEST RESULTS:
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 Item(s): | Result (%) | Max. Limit ($\mu\text{g}/\text{m}^2$) (Textile/Coated material) | Max.Limit(%) (Plastic) | 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. | / | / | / |
| Conclusion | Pass | | | |

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

(b) Detection limit = $1 \mu\text{g}/\text{m}^2$ for Textile / Coated Material

= 0.001% for Plastic, substances or mixtures

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

(d) PFOS refers to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

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/CRS/013, Ver: 7.0, Effective Date: 03/03/2020

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TEST REPORT:

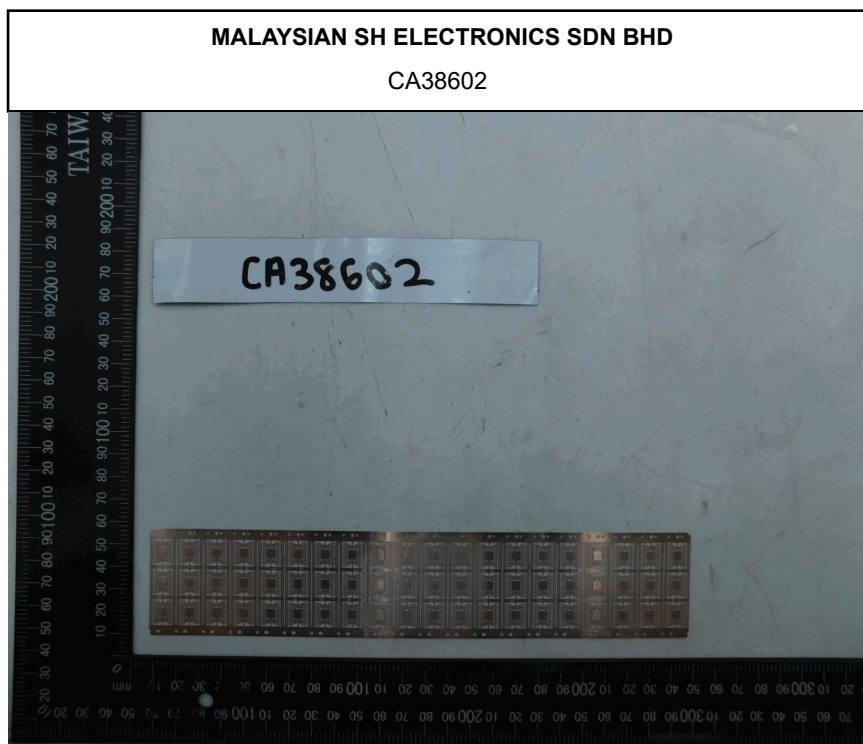
No. CRSSA/200640027-CA38602

Job Ref. CRS/2020-05-27-024

REPORTED DATE: 11/06/2020

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-



SGS authenticate the photo on original report only

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TEST REPORT:

No. CRSSA/200640027-CA38602

REPORTED DATE: 11/06/2020

Job Ref. CRS/2020-05-27-024

1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration
↓
Sample Preparation
↓
Weigh sample (0.2-0.5g) into digestion vessel
↓
Acid digestion (Hotplate)
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration
↓
Sample Preparation
↓
Weigh sample (0.2-0.5g) into digestion vessel
↓
Acid digestion (Hotplate)
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013/AMD1 2017

Sample Receiving and Registration
↓
Sample Preparation
↓
Weigh sample (0.1-0.5g) into digestion vessel
↓
Acid digestion (Hotplate)
↓
"Totally Dissolved"
↓
Filtration
↓
Analyses by ICP

4. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-1 2015

Sample Receiving and Registration
↓
Sample Preparation
↓
Boiling-water-extraction
↓
Analyses by UV- Spectrophotometer
↓
Test Report

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015

Sample Preparation
↓
Weigh sample (0.5-4.0g) into extraction thimble
↓
Soxhlet Extraction with Toluene
↓
Filter through 0.45 um membrane filter
↓
Analyses by GC-MS (with appropriate dilution)

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TEST REPORT:

No. CRSSA/200640027-CA38602
 Job Ref. CRS/2020-05-27-024

REPORTED DATE: 11/06/2020

DETERMINATION OF HBCDD CONTENT

Sample preparation
 ↓
 Weigh sample (0.5 – 4.0g) into extraction thimble
 ↓
 Soxhlet extraction with Toluene
 ↓
 Filter through 0.45 µm membrane filter
 ↓
 Analysis by GC-MS (with appropriate dilution)

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

Sample Cutting / Preparation
 ↓
 Sample Measurement
 ↓
 Solvent Extraction
 ↓
 Concentrate / Dilute extracted solution
 ↓
 GC-MS analysis
 ↓
 DATA

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 (Company No. 10871-T)

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TEST REPORT:

No. CRSSA/200640027-CA38602
 Job Ref. CRS/2020-05-27-024

REPORTED DATE: 11/06/2020

MICROWAVE ASSISTED ACID DIGESTION OF ORGANICALLY BASED METRICES BY US EPA 3051A

Sample Preparation
 ↓
 Weight sample (0.2-0.5g) into digestion vessel
 ↓
 Acid digestion
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

DETERMINATION OF HALOGEN CONTENT

Sample pre-treatment
 ↓
 Weighting and putting sample in cell
 ↓
 Combustion / Absorption
 ↓
 Dilution to fixed volume
 ↓
 Analyses by IC

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TEST REPORT:

No. CRSSA/200640027-CA38602
 Job Ref. CRS/2020-05-27-024

REPORTED DATE: 11/06/2020

DETERMINATION OF PHTHALATES CONTENT

Sample pre-treatment/separation
 ↓
 Sample extraction by Soxhlet method
 ↓
 Concentrate/Dilute extracted solution
 ↓
 Analysis performed by GC-MS
 ↓
 Data

DETERMINATION OF PFOS AND PFOA CONTENTS

Sample pre-treatment / separation
 ↓
 Solvent extraction
 ↓
 Concentrate / Dilute extracted solution
 ↓
 Sample filtration
 ↓
 Analysis performed by LC/MS
 ↓
 Data

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*** End of test report ***

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