

Test Report No. CANEC2209443405 Date: 28 May 2022 Page 1 of 8

Client Name: UNIROYAL ELECTRONICS INDUSTRY(KUNSHAN) CO.,LTD.

Client Address: 88 LONGTENG ROAD, ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN CITY,

JIANGSU, CHINA

Sample Name: Metal Strip Chip Resist

Supplier: Uniroyal Electronics Industry Co., Ltd / Aeon Technology Corporation Co.,Ltd. /

Royal Electronic Factory (Thailand) Co.,Ltd. / Royal

Technology (Thailand) Co.,Ltd. / UNUS TECHNOLOGY CORPORATION

Buyer: Uniroyal Electronics Global Co.,Ltd

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

SGS Job No. : CP22-025327 - GZ

Internal Reference No. : SP22-007839

Date of Sample Received : 12 May 2022

Testing Period: 12 May 2022 - 28 May 2022

Test Requested: Persistent organic pollutants (POP) screening against.

- Substances in Annex I of European Regulation POPs (EU) 2021/277 amending

to Regulation (EU) 2019/1021.

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

Summary:

According to the specified scope and analytical techniques, concentration of test POPs are < regulation limit in the submitted sample.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Coral Qiu

Coral Qiu

Approved Signatory





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Remark:

1. Substances in Annex I of European Regulation POPs (EU) 2019/1021 are prohibited in preparations and constituents of articles unless otherwise specified.

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- 2. Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether are ≤ 10 mg/kg for substances, and Sum of tetra-, penta-, hexa-, hepta- and decaBDE ≤500 mg/kg for mixtures or articles, this restriction is subject to review and assessment by the European by 16 July 2021.
- 3. Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether, heptabromodiphenyl ether and decabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2011/65/EU are exempted.
- 4. Exemption: Alkanes C10-13, chloro (short chain-chlorinated paraffins) (SCCPs) < 1.0% in preparation, <0.15% for articles.
- 5. Exemptions: Perfluorooctane sulfonates (PFOS) and its derivatives (acid, metal salt, halide, amide, and other derivatives including polymers) \leq 10 mg/kg for preparations, < 0.1% (w/w) for articles and < 1 ug/m² for textiles and coated materials.
- 6. Exemptions: HBCDD,No more than 100 mg/kg as an unintentional trace contaminant in substances, mixtures, articles or flame-retarded parts of articles.
- 7. The chemical analysis of substances is performed by means of currently available analytical techniques against substances laid down in Test Requested.
- 8. ^ Detected substance(s) may come from one or more components in composite testing. Client is suggested to identify the component(s) and the exact concentration of the substance(s) by requesting further quantitative analysis from the laboratory.

Test Sample:

Sample Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-094434.003 "Metal Strip Chip Resist"



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Test Method:

SGS In-House method –GZTC CHEM-TOP-268-01, Analyzed by Gas Chromatography – Mass Spectrometry (GC-MS), Gas Chromatography – Electro Capture Detector (GC-ECD), High Performance Liquid Chromatography – Diode Array Detector – Mass Spectrometry (HPLC-DAD-MS) or Liquid Chromatography – Mass /Mass Spectrometry (LC-MS/MS).

Test Result:

| No. | Substance Name | CAS No. | Unit | RL | 003 Concentration |
|-----|-------------------------|---------|-------|----|----------------------|
| - | All tested POPs in list | - | mg/kg | - | ND |

Notes:

- (1) The table above only shows detected POPs, and POPs that below RL are not reported. Please refer to Appendix for the full list of tested POPs.
- (2) RL = Reporting Limit. All RL are based on homogenous material ND = Not detected (lower than RL)
- (3) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7);
- (4) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (5) Sum of PBDEs* Means Sum of Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether and Decabromodiphenyl ether.



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Appendix

POPs substances tested in Article list:

| No. | Substance Name | CAS No. | Unit | RL | Regulatory requirement / Exemption | Sample ID |
|-----|--|-----------------------|-------|------|------------------------------------|-----------|
| 1 | Tetrabromodiphenyl ether | 40088-47-9 and others | mg/kg | 5 | - | 003 |
| 2 | Pentabromodiphenyl ether | 32534-81-9 and others | mg/kg | 5 | - | 003 |
| 3 | Hexabromodiphenyl ether | 36483-60-0 and others | mg/kg | 5 | - | 003 |
| 4 | Heptabromodiphenyl ether | 68928-80-3 and others | mg/kg | 5 | - | 003 |
| 5 | Decabromodiphenyl ether; (decaBDE) | 1163-19-5 | mg/kg | 5 | - | 003 |
| - | Sum of PBDEs* | - | mg/kg | - | 500 | 003 |
| 6 | Perfluorooctane sulfonates (PFOS) and its derivatives | - | mg/kg | - | 1000 | 003 |
| 6-1 | Perfluorooctane sulfonates (PFOS) ^ | 1763-23-1 | mg/kg | 0.01 | - | 003 |
| 6-2 | N-ethylperfluoro-1-octanesulfo namide (EtFOSA) | 4151-50-2 | mg/kg | 0.01 | - | 003 |
| 6-3 | N-methylperfluoro-1-octanesulf onamide(MeFOSA) | 31506-32-8 | mg/kg | 0.01 | - | 003 |
| 6-4 | 2- (N-ethylperfluoro-1-octanesulfo namido) -ethanol(EtFOSE) | 1691-99-2 | mg/kg | 0.01 | - | 003 |
| 6-5 | 2- (N-methylperfluoro-1-octanesul fonamido) -ethanol(MeFOSE) | 24448-09-7 | mg/kg | 0.01 | - | 003 |
| 6-6 | Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 | mg/kg | 0.01 | - | 003 |
| 14 | Hexachlorobenzene | 118-74-1 | mg/kg | 5 | Prohibited | 003 |
| 17 | Pentachlorobenzene | 608-93-5 | mg/kg | 5 | Prohibited | 003 |
| 18 | Polychlorinated biphenyls (PCB) | 1336-36-3 and others | mg/kg | 5 | Prohibited | 003 |



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Appendix

POPs substances tested in Article list:

| No. | Substance Name | CAS No. | Unit | RL | Regulatory requirement / Exemption | Sample ID |
|------|--|--|-------|-------|------------------------------------|-----------|
| 21 | Hexabromobiphenyl | 36355-01-8 | mg/kg | 5 | Prohibited | 003 |
| 22 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 | mg/kg | 10 | 100 | 003 |
| 23 | Hexachlorobutadiene | 87-68-3 | mg/kg | 5 | Prohibited | 003 |
| 24 | Pentachlorophenol (PCP) and its salts and esters | 87-86-5 and others | mg/kg | 0.5 | 5 | 003 |
| 25 | Polychlorinated naphthalenes (PCN) | 70776-03-3 and others | mg/kg | 5 | Prohibited | 003 |
| 26 | Alkanes C ₁₀ ~C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) | 85535-84-8 and others | mg/kg | 50 | 1500 | 003 |
| 27 | Perfluorooctanoic acid (PFOA) and its salts+ | 335-67-1 | mg/kg | 0.010 | 0.025 | 003 |
| 28 | PFOA related substances | - | mg/kg | - | 1.0 | 003 |
| 28-1 | 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 39108-34-4 | mg/kg | 0.2 | - | 003 |
| 28-2 | Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | mg/kg | 0.2 | - | 003 |
| 28-3 | Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | mg/kg | 0.2 | - | 003 |
| 28-4 | 1H,1H,2H,2H-Perfluoro-1-deca nol (8:2 FTOH) | 678-39-7 | mg/kg | 0.2 | - | 003 |
| 28-5 | 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | mg/kg | 0.2 | - | 003 |
| 28-6 | 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) | 1996-88-9 | mg/kg | 0.2 | - | 003 |
| 28-7 | Perfluoro-1-iodooctane (PFOI) | 507-63-1 | mg/kg | 0.2 | - | 003 |



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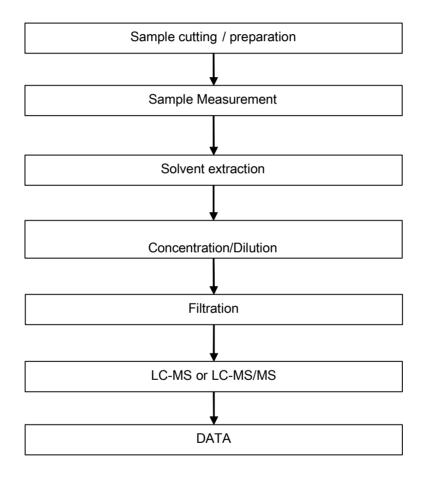
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart





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