

Test Report

No.: SHAEC22001615403

Date: Sep 21, 2022

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Client name : UNIROYAL ELECTRONICS INDUSTRY(KUNSHAN) CO.,LTD.
Client address : 88 Longteng Road, Economic & Technical Development Zone, Kunshan City, Jiangsu,
CHINA

Sample Name : Metal Oxide Film Fixed Resistors
Buyer : Uniroyal Electronics Global Co.,Ltd
Manufacturer : Uniroyal Electronics Industry Co., Ltd/Aeon Technology Corporation
CO.,LTD./Royal Electronic Factory (Thailand) Co.,Ltd./Royal Technology
(Thailand) Co.,Ltd./UNUS TECHNOLOGY CORPORATION

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

SGS Job No. : SP22-021095
Sample Receiving Date : Sep 15, 2022
Testing Period : Sep 15, 2022 to Sep 21, 2022
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
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jenny Lan
Approved Signatory

scan to see the report



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Testing Center-City

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Test Results:

Test Part Description:

SN ID	Sample No	SGS Sample ID	Description
SN1	A2	SHA22-0016154-0001.C002	Blue body

Remarks:

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

Regulation (EU) 2019/1021 (POPs) and its amendments - Persistent organic pollutants (POPs)

Test Method: With reference to SGS In-House method , analysis was performed by GC-MS,GC-ECD, HPLC-DAD-MS.

Test Item(s)	CAS No.	Limit	Units	MDL	A2
Hexachlorobutadiene	87-68-3	Banned	mg/kg	5	ND
Pentachlorobenzene	608-93-5	Banned	mg/kg	5	ND
Hexachlorobenzene	118-74-1	Banned	mg/kg	5	ND
Polychlorinated biphenyls (PCB)	1336-36-3 and others	Banned	mg/kg	5	ND
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	100	mg/kg	10	ND
Polychlorinated naphthalenes (PCN)	70776-03-3 and others	Banned	mg/kg	5	ND
Hexabromodiphenyl (HexaBB)	36355-01-8	Banned	mg/kg	5	ND
Tetrabromodiphenylether(TetraBDE)	40088-47-9 and others	10	mg/kg	5	ND



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Test Item(s)	CAS No.	Limit	Units	MDL	A2
Pentabromodiphenyl ethers (PentaBDE)	32534-81-9 and others	10	mg/kg	5	ND
Hexabromodiphenylether(HexaBDE)	36483-60-0 and others	10	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	68928-80-3 and others	10	mg/kg	5	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	10	mg/kg	5	ND
Alkanes, C10-13, chloro(short chain-chlorinated paraffins) (SCCPs)	85535-84-8 and others	1	%	0.005	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	10	mg/kg	-	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	-	mg/kg	1	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	-	mg/kg	1	ND
Perfluorooctanoic Acid (PFOA) and its salts+	335-67-1	0.025	mg/kg	0.025	ND
PFOA Related Substances	-	1	mg/kg	-	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	-	mg/kg	0.2	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	-	mg/kg	0.2	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	mg/kg	0.2	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	mg/kg	0.2	ND



SGS-CTC (Shanghai) Inspection & Testing Services Co., Ltd.
Testing Center-Chemical Laboratory

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Test Item(s)	CAS No.	Limit	Units	MDL	A2
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	mg/kg	0.2	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	-	mg/kg	0.2	ND

Notes:

- (1) Substances in Annex I of European Regulation POPs (EU) 2019/1021 are prohibited in preparations and constituents of articles unless otherwise specified.
- (2) The chemical analysis of substances is performed by means of currently available analytical techniques against substances laid down in Test Requested.
- (3) 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.
- (4) Exemption: Alkanes C10-13, chloro (short chain-chlorinated paraffins) (SCCPs) < 1.0% in preparation, <0.15% for articles.
- (5) Exemptions: HBCDD, No more than 100 mg/kg as an unintentional trace contaminant in substances, mixtures, articles or flame-retarded parts of articles.
- (6) Exemptions: Perfluorooctane sulfonates (PFOS) and its derivatives (acid, metal salt, halide, amide, and other derivatives including polymers) ≤ 10 mg/kg for preparations, < 0.1% (w/w) for articles and < 1 ug/m² for textiles and coated materials.
- (7) ^ 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).
- 8) + 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).
- (9) 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.
- (10) 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.

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

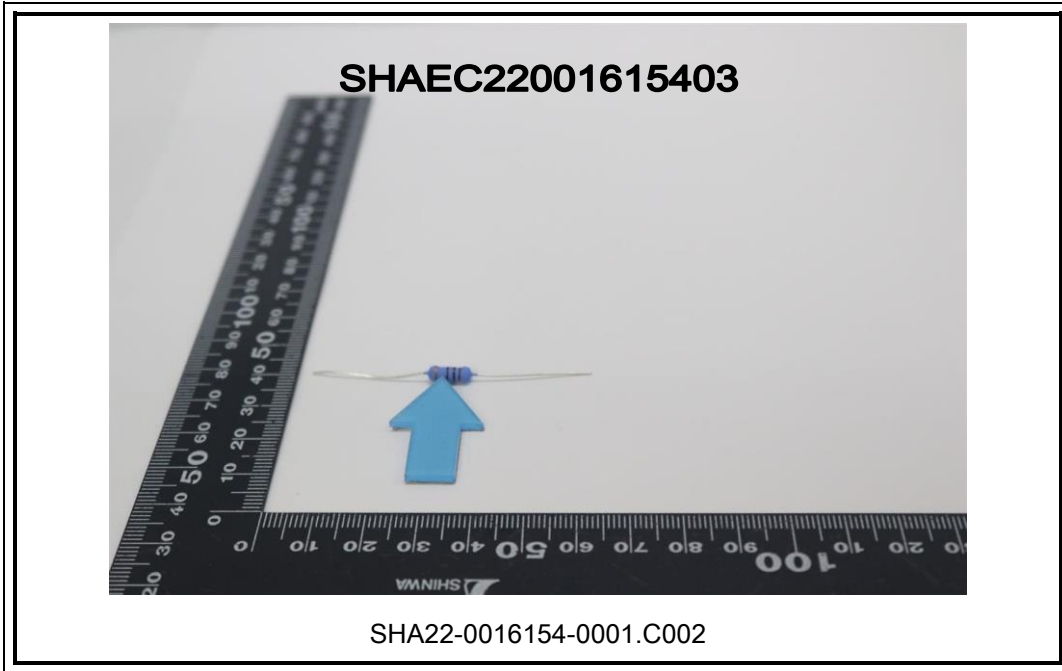


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