

Test Report

No. CANEC2302129201

Date: 02 Mar 2023

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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 : Chip Resistors
Buyer : Uniroyal Electronics Global Co.,Ltd
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

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

SGS Job No. : 23390842 - XM
Date of Sample Received : 20 Feb 2023
Testing Period : 20 Feb 2023 - 28 Feb 2023
Test Requested : Selected 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 Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report



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Guangzhou Branch

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-021292.001	"Chips"

Remarks :

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

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorobutane Acid (PFBA)	375-22-4	mg/kg	0.01	ND
Perfluoropentane Acid (PFPeA)	2706-90-3	mg/kg	0.01	ND
Perfluorohexane Acid (PFHxA) and its salts*	-	mg/kg	0.01	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.01	ND
Perfluorobutane Sulfonate (PFBS) and its salts*	-	mg/kg	0.01	ND
Perfluoroheptane Acid (PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.01	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) and its salts / derivative *	-	mg/kg	0.01	ND
Perfluorohexane Sulfonate (PFHxS) and its salts*	-	mg/kg	0.01	ND
Perfluorononane Acid (PFNA) and its salts*	-	mg/kg	0.01	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
Perfluoroheptanesulfonic Acid (PFHpS) and its salts*	-	mg/kg	0.01	ND
Perfluorodecane Acid (PFDA) and its salts*	-	mg/kg	0.01	ND
2H,2H,3H,3H Perfluoroundecanoic acid (H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.01	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide(N-MeFOSA)	31506-32-8	mg/kg	0.01	ND



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Test Item(s)	CAS NO.	Unit	MDL	001
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol(N-MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol(N-EtFOSE)	1691-99-2	mg/kg	0.01	ND
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	mg/kg	0.01	ND
Perfluorododecanoic Acid (PFDoDA) and its salts*	-	mg/kg	0.01	ND
Perfluorodecane Sulfonate (PFDS) and its salts*	-	mg/kg	0.01	ND
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	0.01	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.01	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) and its salts*	-	mg/kg	0.01	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.01	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.01	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.01	ND
Perfluoro-nonane-sulfonic acid (PFNS)	68259-12-1	mg/kg	0.01	ND
Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	mg/kg	0.01	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	mg/kg	0.01	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyl) hydrogen phosphate (8:2diPAP)	678-41-1	mg/kg	0.01	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.01	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.01	ND
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	mg/kg	0.01	ND
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.01	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.01	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	mg/kg	0.01	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND



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Test Item(s)	CAS NO.	Unit	MDL	001
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND

Notes:

PFOA and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

PFOS and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

PFNA and its salts* including PFNA (CAS No. 375-95-1), PFNA-Na (CAS No. 21049-39-8) and PFNA-NH₄ (CAS No. 4149-60-4). The result of PFNA is used to represent PFNA and its salts.

PFDA and its salts* including PFDA (CAS No. 335-76-2), PFDA-Na (CAS No. 3830-45-3) and PFDA-NH₄ (CAS No. 3108-42-7). The result of PFDA is used to represent PFDA and its salts.

Perfluorododecanoic Acid (PFDoDA) and its salts* including PFDoDA (CAS No. 307-55-1) and PFDoDA-NH₄ (CAS No. 3793-74-6). The result of PFDoDA is used to represent PFDoDA and its salts.

PFDS and its salts* including PFDS (CAS No. 335-77-3), PFDS-Na (CAS No. 2806-15-7), PFDS-K (CAS No. 2806-16-8) and PFDS-NH₄ (CAS No. 67906-42-7). The result of PFDS is used to represent PFDS and its salts.

PFBS and its salts* including PFBS (CAS No. 375-73-5), PFBS-K (CAS No. 29420-49-3) and PFBS-H₂O (CAS No. 59933-66-3). The result of PFBS is used to represent PFBS and its salts.

Perfluorohexane acid (PFHxA) and its salts* including PFHxA (CAS No. 307-24-4) and APFHx (CAS No. 21615-47-4). The result of PFHxA is used to represent PFHxA and its salts.

PFHxS and its salts* including PFHxS (CAS No. 355-46-4), PFHxS-Na (CAS No. 82382-12-5) and PFHxS-K (CAS No. 3871-99-6). The result of PFHxS is used to represent PFHxS and its salts.

PFHpS and its salts* including PFHpS (CAS No. 375-92-8), PFHpS-Na (CAS No. 68555-66-8) and PFHpS-K (CAS No. 60270-55-5). The result of PFHpS is used to represent PFHpS and its salts.

HFPO-DA and its salts * including HFPO-DA (CAS No. 13252-13-6), HFPO-DA-K (CAS No. 67118-55-2), HFPO-DA-NH₄ (CAS No. 62037-80-3) and HFPO-DA-F (CAS No. 2062-98-8). The result of HFPO-DA is used to represent HFPO-DA and its salts.

(H₂PFDA/8:2 FTCA) and its salts / derivative * including H₂PFDA/8:2 FTCA (CAS No. 27854-31-5) and (8:2 FTCA-P(C₄H₉)₄) (CAS No. 882489-14-7). The result of H₂PFDA/8:2 FTCA is used to represent H₂PFDA/8:2 FTCA and its salts / derivative.



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



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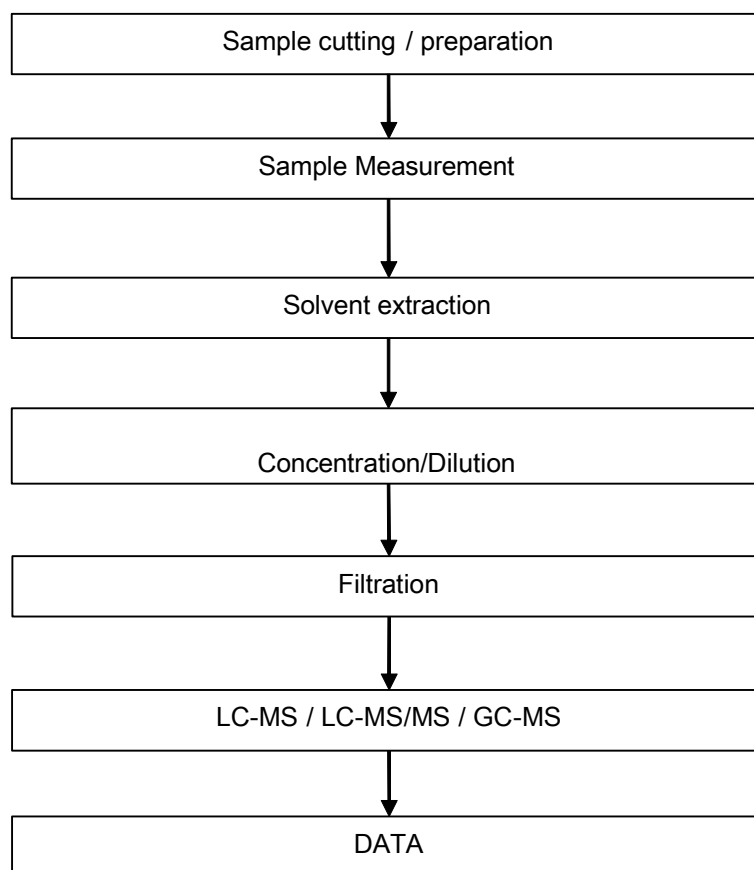
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PFAS Testing Flow Chart



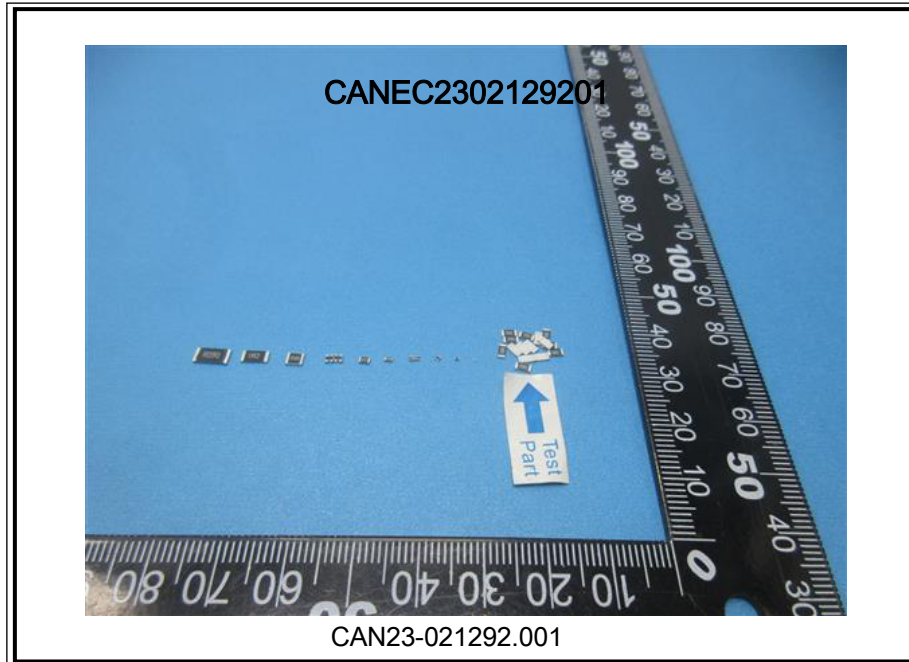
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Sample photo:



SGS authenticate the photo on original report only

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