

## Test Report

No.: CANEC23007567001

Date: Aug 14, 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.: XMP23-000092

Sample Receiving Date: Aug 04, 2023

Testing Period: Aug 04, 2023 ~ Aug 11, 2023

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).

Test Requirement	Conclusion
Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCa-related substances	Pass

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessie Li

Jessie-JX Li  
 Approved Signatory

scan to see the report



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**Test Result(s):**

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0075670-0001.C001	"Chips Resistors"

Remarks:

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

**Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds**

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND
<b>Conclusion</b>				<b>Pass</b>

**Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCa-related substances**

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.	Limit	Unit(s)	MDL	A1
Perfluorononane Acid (PFNA) and its salts*	-	-	µg/kg	10	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND
Perfluorodecane Acid (PFDA) and its salts*	-	-	µg/kg	10	ND
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	-	µg/kg	10	ND
Perfluorododecanoic Acid (PFDoDA) and its salts*	-	-	µg/kg	10	ND
Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	-	µg/kg	10	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND
Sum of C9-C14 PFCAs and its salts	-	25	µg/kg	-	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Perfluorodecane Sulfonate (PFDS) and its salts*	-	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	-	µg/kg	100	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnA/ 8:3 FTCA)	34598-33-9	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND
2H,2H-Perfluorodecane Acid (H <sub>2</sub> PFDA/8:2 FTCA) and its salts / derivative *	-	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
<b>Conclusion</b>					<b>Pass</b>

**Notes:**

- (1) 1µg/kg=1ppb.
- (2) PFNA and its salts\* including PFNA (CAS No. 375-95-1), PFNA-Na (CAS No. 21049-39-8) and PFNA-NH<sub>4</sub> (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-NH<sub>4</sub> (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-NH<sub>4</sub> (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-NH<sub>4</sub> (CAS No. 67906-42-7), The result of PFDS is used to represent PFDS and its salts.  
 2H,2H-Perfluorodecane Acid (H<sub>2</sub>PFDA/8:2 FTCA) and its salts / derivative \* including H<sub>2</sub>PFDA/8:2 FTCA (CAS No. 27854-31-5) and Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>) (CAS No. 882489-14-7). The result of H<sub>2</sub>PFDA/8:2 FTCA is used to represent H<sub>2</sub>PFDA/8:2 FTCA and its salts /



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derivative.

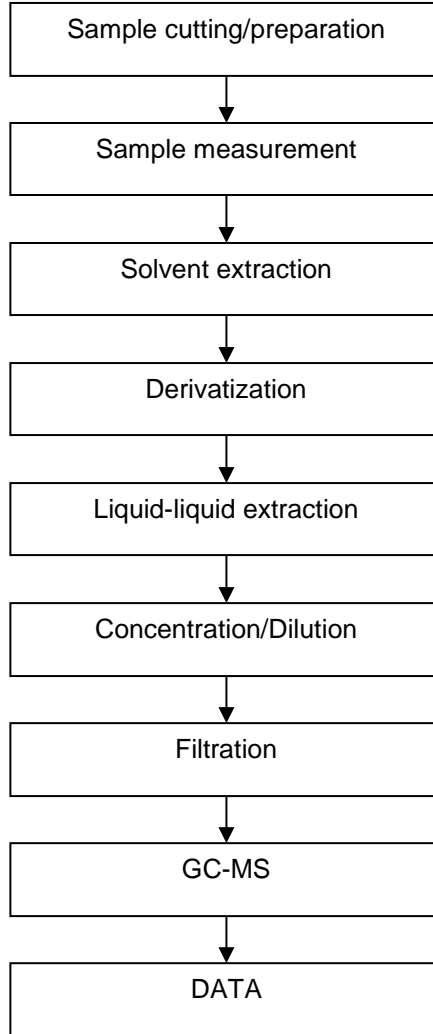
- (3) Until 25 August 2024, the concentration limit for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCAs, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (4) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCAs, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (5) Recommended requirement with reference to Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (Effective date: 25 February 2023).

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.

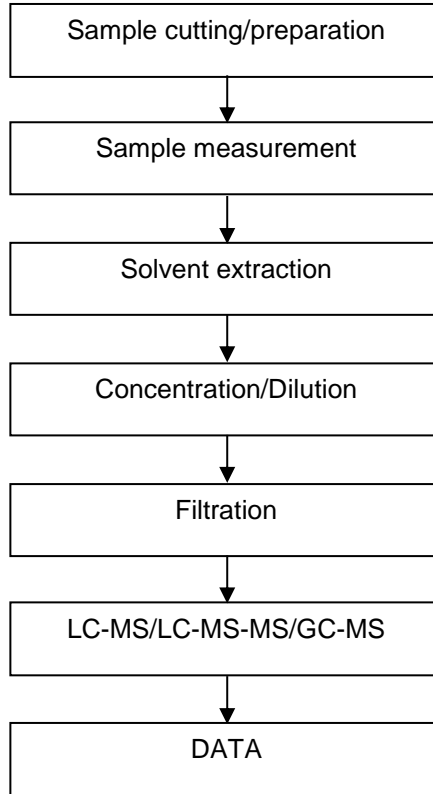


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### Organotin Testing Flow Chart



### PFASs/ PFOS/PFOA Testing Flow Chart



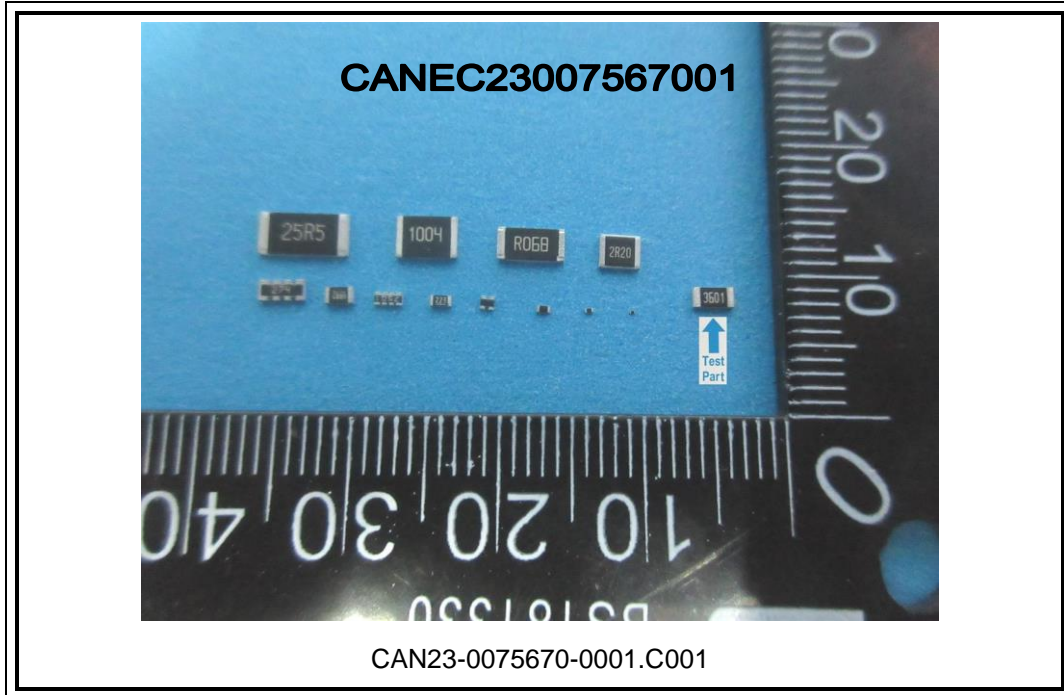
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Sample Photo:



SGS authenticate the photo on original report only  
 \*\*\* End of Report \*\*\*



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