

## Test Report

No. SHAMPLP2018844301

Date: 27 Sep 2020

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JIANGYIN XINSHUN MICROELECTRONIC CO., LTD  
NO.78 CHANGSHAN RD.,JIANGYIN CITY,JIANGSU PRO.,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : the chip for using three layer diffusion semiconductor material

SGS Job No. : SHIN2009056818PC - SH  
Date of Sample Received : 18 Sep 2020  
Testing Period : 18 Sep 2020 - 23 Sep 2020  
Test Requested : Persistent organic pollutants (POPs) screening against:  
- Substances in Annex I of European Regulation POPs (EU) 2019/1021.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

### Result Summary :

Test Requested	Conclusion
Persistent organic pollutants (POPs) concentration in the submitted sample	PASS

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Denki Zheng*

Denki Zheng  
Approved Signatory

scan to see the report



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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-188443.001	Colorful solid piece

Remarks :

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

### Persistent organic pollutants (POPs)

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

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Polychlorinated biphenyls (PCB)	1336-36-3 and others	★	mg/kg	5	ND
Polychlorinated naphthalenes (PCN)	70776-03-3 and others	★	mg/kg	5	ND
Hexachlorobutadiene	87-68-3	★	mg/kg	5	ND
Pentachlorobenzene	608-93-5	★	mg/kg	5	ND
Hexachlorobenzene	118-74-1	★	mg/kg	5	ND
Hexabromobiphenyl	36355-01-8	★	mg/kg	5	ND
Tetrabromodiphenyl ether	40088-47-9 and others	10	mg/kg	5	ND
Pentabromodiphenyl ether	32534-81-9 and others	10	mg/kg	5	ND
Hexabromodiphenyl ether	36483-60-0 and others	10	mg/kg	5	ND
Heptabromodiphenyl ether	68928-80-3 and others	10	mg/kg	5	ND
Decabromodiphenyl ether	1163-19-5	10	mg/kg	5	ND
Pentachlorophenol(PCP), its salts and esters	87-86-5 and others	★	mg/kg	0.5	ND
Alkanes, C10-13,chloro(short chain-chlorinated paraffins) (SCCPs)	85535-84-8 and others	1500	mg/kg	50	ND
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	※	100	mg/kg	10	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Perfluorooctane sulfonates (PFOS) and its derivatives	-	1000	mg/kg	-	ND
PFOS <sup>^</sup>	1763-23-1	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	-	mg/kg	1	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	-	mg/kg	1	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	-	mg/kg	1	ND
Perfluorooctanoic Acid (PFOA) and its salts+ PFOA related substances		0.025	mg/kg	0.025	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
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
Endrin	72-20-8	★	mg/kg	0.05	ND
Heptachlor	76-44-8	★	mg/kg	0.05	ND
Mirex	2385-85-5	★	mg/kg	0.05	ND
Aldrin	309-00-2	★	mg/kg	0.05	ND
Dieldrin	60-57-1	★	mg/kg	0.05	ND
DDT(1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane)	50-29-3	★	mg/kg	0.05	ND
Toxaphene	8001-35-2	★	mg/kg	0.2	ND
Chlordecone	143-50-0	★	mg/kg	0.2	ND
HCH, including lindane	58-89-9/319-84-6/ 319-85-7/608-73-1	★	mg/kg	0.05	ND
Endosulfan	115-29-7/959-98-8/33213-65-9	★	mg/kg	0.05	ND
Chlordane	57-74-9	★	mg/kg	0.05	ND
Dicofol	115-32-2	★	mg/kg	0.05	ND

Notes :

- ★=banned
- Substances in Annex I of European Regulation POPs (EU) 2019/1021 are prohibited in preparations



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and constituents of articles unless otherwise specified.

3. The chemical analysis of substances is performed by means of currently available analytical techniques against substances laid down in Test Requested.

4. 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.

5. Exemption: Alkanes C10-13, chloro (short chain-chlorinated paraffins) (SCCPs) < 1.0% in preparation, <0.15% for articles.

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. ✕: 25637-99-4 & 3194-55-6 & 134237-50-6 & 134237-51-7 & 134237-52-8

8. 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/m<sup>2</sup> for textiles and coated materials.

9. ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)

10. + 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);

11. 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 subject to review and assessment by the European by 16 July 2021.

12. 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.



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