

## Test Report

No. SHAMPLP2213242906

Date: 15 Sep 2022

Page 1 of 5

Client Name : NeoGraf Solutions, LLC

Client Address : 11709 Madison Avenue, Lakewood, Ohio USA 44107

Sample Name : HITHERM™ with Plastic

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

SGS Job No. : SUIN2209009815PC - SUZ

Date of Sample Received : 08 Sep 2022

Testing Period : 08 Sep 2022 - 15 Sep 2022

Test Requested : Persistent organic pollutants (POPs) screening against: -Selected Substances in Regulation (EU) 2019/1021 (POPs) and its amendments.

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.

Mei Shen

Mei Shen  
Approved Signatory

scan to see the report



SHAMPLP2213242906



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA22-132429.006	Grey solid piece

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

Test Item(s)	CAS NO.	Limit	Unit	MDL	006
Perfluorooctane Sulfonates (PFOS) ^	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	335-67-1	0.025	mg/kg	0.025	ND
1H,1H,2H,2H-Perfluorodecanesulphonic acid (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

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. 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 µg/m2



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for textiles and coated materials.

4. ^ 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)

5. + 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)

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.

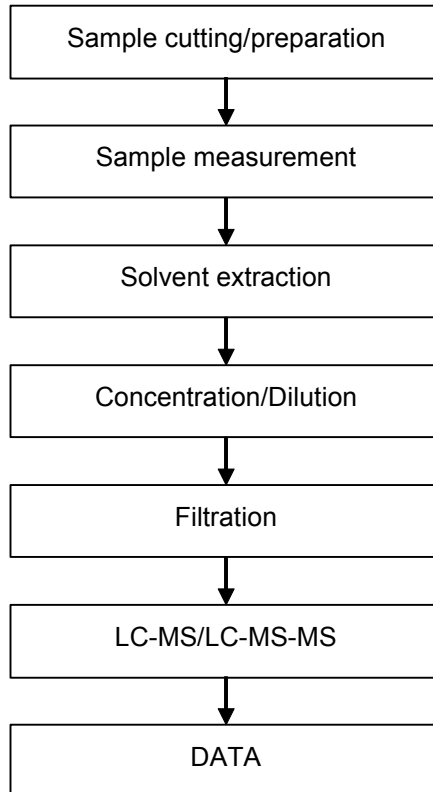


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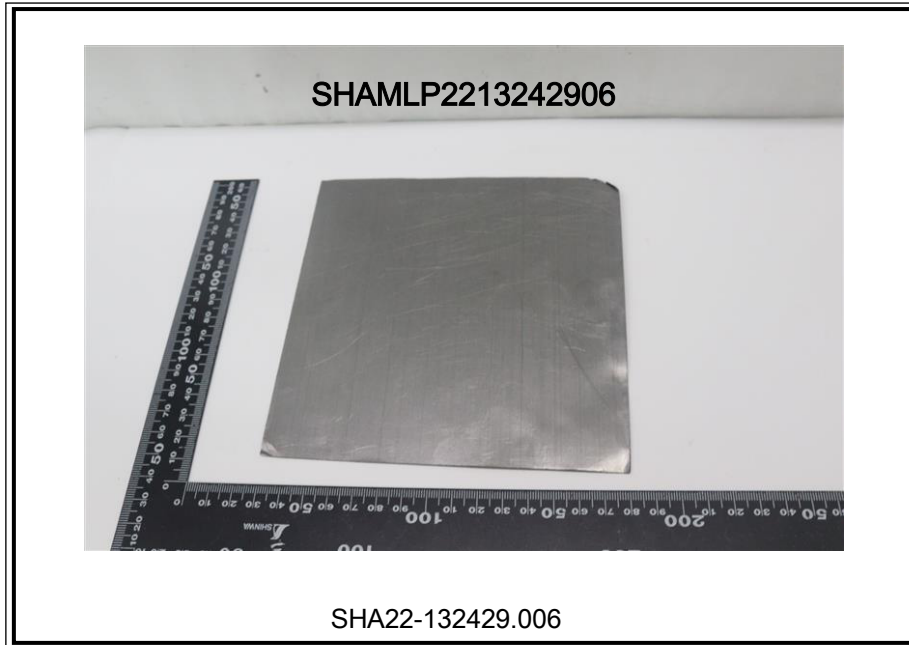
PFASs/ PFOS/PFOA Testing Flow Chart



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