

Test Report

No.: CANEC23010851111

Date: Oct 11, 2023

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Client Name: GOLDENMAX INTERNATIONAL TECHNOLOGY(ZHUHAI) LTD.

Client Address: NO.8 QINSHI ROAD, QINSHI TECHNOLOGY & INDUSTRIAL PARK, SANZAO TOWN, JINWAN DISTRICT, ZHUHAI CITY, P.R.CHINA

Sample Name: FR-4.0 CCL&insulating board(TG150)

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

SGS Job No.: GZP23-014970

Sample Receiving Date: Sep 27, 2023

Testing Period: Sep 27, 2023 ~ Oct 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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Targeted 221 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	See Results
Phthalates	See Results
Element(s)	See Results
Red Phosphorus	See Results
Sulfur	See Results

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

Arsene Ye

Arsene Ye
Approved Signatory

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Test Requirement	Conclusion
Asbestos	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN23-0108511-0001.C002	Double-side copper-clad laminate

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	13
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A2
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Targeted 221 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(s)	MDL	A2
PFOS, its salts and related compounds				
Perfluorooctane sulfonates (PFOS) ^{Note (1)}	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA) Note (25)	754-91-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA) ^{Note (2)}	335-67-1	mg/kg	0.010	ND
PFOA-related compounds				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	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) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A2
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
C9-C14 PFCA, their salts				
Perfluorononane Acid (PFNA) ^{Note (4)}	375-95-1	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA) ^{Note (4)}	335-76-2	mg/kg	0.010	ND
Perfluoroundecanoic Acid (PFUnDA) ^{Note (22)}	2058-94-8	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA) ^{Note (4)}	307-55-1	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTrDA) ^{Note (24)}	72629-94-8	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND
C9-C14 PFCA-related substances				
Perfluorodecane Sulfonate (PFDS) ^{Note (10)}	335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	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-Perfluorododecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA) ^{Note (12)}	34598-33-9	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.010	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
Sum of C9-C14-related substances	-	mg/kg	-	ND



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PFHxS, its salts				
Perfluorohexane Sulfonate (PFHxS) ^{Note (7)}	355-46-4	mg/kg	0.010	ND
PFHxS-related compounds				
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	mg/kg	0.5	ND
Other PFAS				
Perfluorobutane Acid (PFBA) ^{Note (13)}	375-22-4	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS) ^{Note (5)}	375-73-5	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA) ^{Note (17)}	2706-90-3	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA) ^{Note (6)}	307-24-4	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA) ^{Note (14)}	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) ^{Note (8)}	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) ^{Note (26)}	27619-97-2	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	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
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) ^{Note (9)}	13252-13-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS) ^{Note (18)}	2706-91-4	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS) ^{Note (19)}	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS) ^{Note (16)}	749786-16-1	mg/kg	0.010	ND



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Perfluorododecanesulfonic acid (PFDoDS) ^{Note (20)}	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS) ^{Note (21)}	791563-89-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.010	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.010	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.010	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) ^{Note (15)}	678-41-1	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	mg/kg	0.010	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	0.010	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	0.010	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	0.010	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUDS)	763051-92-9	mg/kg	0.010	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	mg/kg	0.010	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	mg/kg	0.010	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.010	ND
Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	mg/kg	0.1	ND
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	mg/kg	0.1	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	mg/kg	0.1	ND
Perfluorooctyl triethoxysilane (POTS)	51851-37-7	mg/kg	0.1	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	mg/kg	0.1	ND
Perfluorodecyl iodide (PFDI)	423-62-1	mg/kg	0.1	ND
11H-Perfluoroundecanoic acid (11H-PFUnDA) ^{Note (23)}	1765-48-6	mg/kg	0.1	ND

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- (1) PFOS refer to its salts/derivative including

PFOS-K	CAS No.: 2795-39-3
PFOS-Li	CAS No.: 29457-72-5
PFOS-Na	CAS No.: 4021-47-0
PFOS-NH ₄	CAS No.: 29081-56-9
PFOS-NH ₂ (C ₂ H ₄ OH) ₂	CAS No.: 70225-14-8
PFOS-N(C ₂ H ₅) ₄	CAS No.: 56773-42-3
PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂	CAS No.: 251099-16-8
POSF	CAS No.: 307-35-7
POSF-Mg	CAS No.: 91036-71-4
- (2) PFOA refer to its salts/derivative 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
APFO	CAS No.: 3825-26-1
PFOA-Li	CAS No.: 17125-58-5
- (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.

8:2 FTS refer to its salts including	
8:2 FTS-K	CAS No.: 438237-73-1
8:2 FTS-NH ₄	CAS No.: 149724-40-3
8:2 FTS-Na	CAS No.: 27619-96-1
- (4) PFNA refer to its salts including

PFNA-Na	CAS No.: 21049-39-8
PFNA-NH ₄	CAS No.: 4149-60-4
PFNA-K	CAS No.: 21049-38-7
PFNA-Li	CAS No.: 60871-92-3
PFNA-Ag	CAS No.: 7358-16-9

 PFDA refer to its salts including

PFDA-Na	CAS No. 3830-45-3
PFDA-NH ₄	CAS No: 3108-42-7
PFDA-K	CAS No: 51604-85-4
PFDA-Ag	CAS No: 5784-82-7
PFDA-Li	CAS No: 84743-32-8

 PFDODA refer to its salts including

PFDODA-NH ₄	CAS No: 3793-74-6
PFDODA-Na	CAS No: 60872-01-7
- (5) PFBS refers to its salts/derivative including

PFBS-K	CAS No.: 29420-49-3
PFBS-H ₂ O	CAS No.: 59933-66-3
PFBS-Li	CAS No.: 131651-65-5
TPS-PFBS	CAS No.: 144317-44-2
PFBS-S(CH ₃) ₂ C ₆ H ₅	CAS No.: 220133-51-7
PFBS-P(C ₄ H ₉) ₄	CAS No.: 220689-12-3
PFBS-N(C ₂ H ₅) ₄	CAS No.: 25628-08-4
PFBS-F	CAS No.: 375-72-4
PFBS-NC ₄ H ₉ O	CAS No.: 503155-89-3
PFBS-Mg	CAS No.: 507453-86-3
PFBS-NH ₄	CAS No.: 68259-10-9
PFBS-SC ₁₈ H ₂₃ O	CAS No.: 209482-18-8
PFBS-Cl	CAS No.: 2991-84-6
PFBS-Na	CAS No.: 60453-92-1



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PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 194999-85-4
PFBS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-18-2
(6) PFHxA refers to its salt including	
APFHx	CAS No.: 21615-47-4
PFHxA-Na	CAS No.: 2923-26-4
PFHxA-K	CAS No.: 3109-94-2
PFHxA-F	CAS No.: 355-38-4
PFHxA-Ag	CAS No.: 336-02-7
PFHxA-Li	CAS No.: 90430-61-8
(7) PFHxS refers to its salts including	
PFHxS-Na	CAS No.: 82382-12-5
PFHxS-K	CAS No.: 3871-99-6
PFHxS-Li	CAS No.: 55120-77-9
PFHxS-NH ₄	CAS No.: 68259-08-5
PFHxS-BTPP	CAS No.: 1000597-52-3
PFHxS-N(C ₄ H ₉) ₄	CAS No.: 108427-54-9
PFHxS-N(C ₂ H ₅) ₄	CAS No.: 108427-55-0
PFHxS-NC ₄ H ₉	CAS No.: 1187817-57-7
PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄	CAS No.: 1310480-24-0
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂	CAS No.: 1310480-27-3
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂	CAS No.: 1310480-28-4
PFHxS-C ₄₂ H ₇₀ O ₃₅	CAS No.: 1329995-45-0
PFHxS-C ₄₈ H ₈₀ O ₄₀	CAS No.: 1329995-69-8
TPS-PFHxS	CAS No.: 144116-10-9
PFHxS-C ₄₄ H ₃₇ N ₂ O ₂	CAS No.: 1462414-59-0
PFHxS-I(C ₆ H ₅) ₂	CAS No.: 153443-35-7
PFHxS-TMA	CAS No.: 189274-31-5
PFHxS-NH ₂ (CH ₃) ₃	CAS No.: 202189-84-2
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 213740-81-9
PFHxS-Ga	CAS No.: 341035-71-0
PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅	CAS No.: 341548-85-4
PFHxS-Sc	CAS No.: 350836-93-0
PFHxS-Nd	CAS No.: 41184-65-0
PFHxS-Y	CAS No.: 41242-12-0
PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂	CAS No.: 421555-73-9
PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂	CAS No.: 421555-74-0
PFHxS-F	CAS No.: 423-50-7
PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃	CAS No.: 425670-70-8
PFHxS-Zn	CAS No.: 70136-72-0
PFHxS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-16-0
PFHxS-N(C ₂ H ₅) ₃	CAS No.: 72033-41-1
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 866621-50-3
PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇	CAS No.: 910606-39-2
PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC ₂₈ H ₃₁ O ₄	CAS No.: 928049-42-7
PFHxS-Cl	CAS No.: 55591-23-6
PFHxS-Sulfonium, propenoate polymer	CAS No.: 911027-69-5
(8) PFHpS refers to its salts including	
PFHpS-Na	CAS No.: 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
PFHpS-NH ₄	CAS No.: 68259-07-4



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PFHpS-Li	CAS No.: 117806-54-9
(9) HFPO-DA refers to its salts including	
HFPO-DA-NH ₄	CAS No.: 62037-80-3
HFPO-DA-K	CAS No.: 67118-55-2
HFPO-DA-F	CAS No.: 2062-98-8
(10) PFDS refer to its salts including	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH ₄	CAS No.: 67906-42-7
(11) H ₂ PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C ₄ H ₉) ₄	CAS No.: 882489-14-7
(12) H ₄ PFUnDA / 8:3 FTCA refer to its salts including	
H ₄ PFUnDA-K	CAS No.: 83310-58-1
(13) PFBA refers to its salts including	
PFBA-NH ₄	CAS No.: 10495-86-0
PFBA-Na	CAS No.: 2218-54-4
PFBA-K	CAS No.: 2966-54-3
PFBA-Ag	CAS No.: 3794-64-7
PFBA-Li	CAS No.: 4146-76-3
(14) PFHpA refers to its salts including	
PFHpA-Na	CAS No.: 20109-59-5
PFHpA-K	CAS No.: 21049-36-5
PFHpA-NH ₄	CAS No.: 6130-43-4
PFHpA-Cs	CAS No.: 171198-24-6
PFHpA-Ag	CAS No.: 424-05-5
PFHpA-Li	CAS No.: 60871-90-1
(15) 8:2diPAP refers to its salts including	
8:2diPAP-Na	CAS No.: 114519-85-6
(16) PFUnDS refers to its salts including	
PFUnDS-Na	CAS No.: 441296-91-9 (anion)
(17) PFPeA refers to its salts including	
PFPeA-Na	CAS No.: 2706-89-0
PFPeA-K	CAS No.: 336-23-2
PFPeA-NH ₄	CAS No.: 68259-11-0
PFPeA-Li	CAS No.: 198482-22-3
PFPeA-Ag	CAS No.: 2795-30-4
(18) PFPeS refers to its salts including	
PFPeS-Na	CAS No.: 630402-22-1
PFPeS-K	CAS No.: 3872-25-1
PFPeS-NH ₄	CAS No.: 68259-09-6
(19) PFNS refers to its salts including	
PFNS-Na	CAS No.: 98789-57-2
PFNS-NH ₄	CAS No.: 17202-41-4
PFNS-K	CAS No.: 29359-39-5
(20) PFDoDS refers to its salts including	
PFDoDS-Na	CAS No.: 1260224-54-1
(21) PFTTrDS refers to its salts including	
PFTTrDS-Na	CAS No.: 174675-49-1
(22) PFUnDA refers to its salts including	
PFUnDA-Na	CAS No.: 60871-96-7
PFUnDA-NH ₄	CAS No.: 4234-23-5
PFUnDA-K	CAS No.: 30377-53-8



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- (23) 11H-PFUnDA refers to its salts including
 11H-PFUnDA-K CAS No.: 307-71-1
 11H-PFUnDA-NH₄ CAS No.: 5081-02-7
- (24) PFTrDA refers to its salts including
 PFTrDA-NH₄ CAS No.: 4288-72-6
- (25) PFOSA refers to its salts including
 PFOSA-Li CAS No.: 76752-79-9
- (26) 6:2 FTS refers to its salts including
 6:2 FTS-Na CAS No.: 27619-94-9
 6:2 FTS-K CAS No.: 59587-38-1
 6:2 FTS-NH₄ CAS No.: 59587-39-2

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Tetrabromobisphenol A(TBBP-A)	79-94-7	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-



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Notes:

AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1



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Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Hexabromocyclododecane (HBCDD) and its main diastereoisomers (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	mg/kg	20	ND

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Dibutyl Phthalate(DBP)	84-74-2	%	0.003	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A2
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A2
Antimony(Sb)	mg/kg	10	ND

Red Phosphorus

Test Method: SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ICP-OES / GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Red Phosphorus	7723-14-0	mg/kg	500	ND

Sulfur

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A2
Sulfur (S)	mg/kg	50	646

Asbestos

Test Method: With reference to NIOSH 9000:2015 and ISO 22262-1:2012, analysis was performed by XRD/PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Actinolite	77536-66-4	%	0.1	Negative
Amosite	12172-73-5	%	0.1	Negative
Anthophyllite	77536-67-5	%	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	%	0.1	Negative
Crocidolite	12001-28-4	%	0.1	Negative
Tremolite	77536-68-6	%	0.1	Negative

Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

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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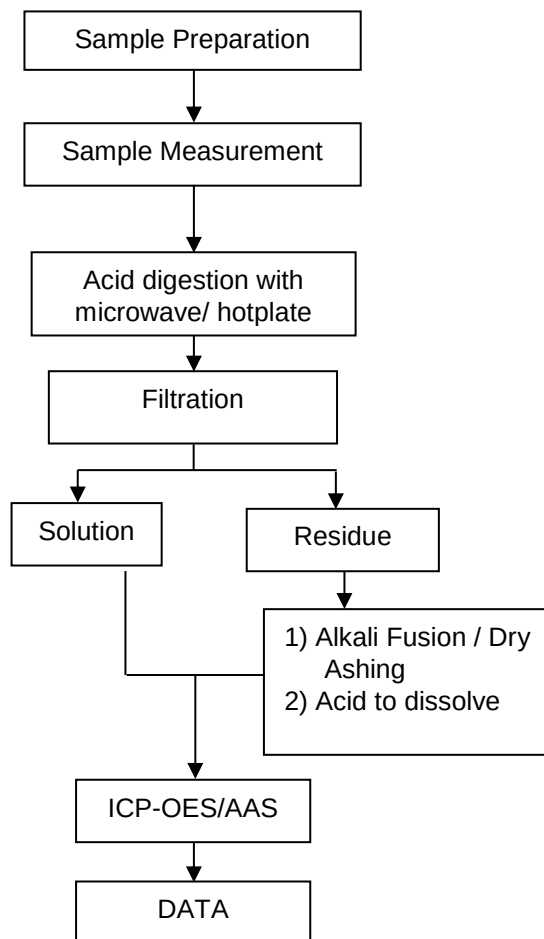
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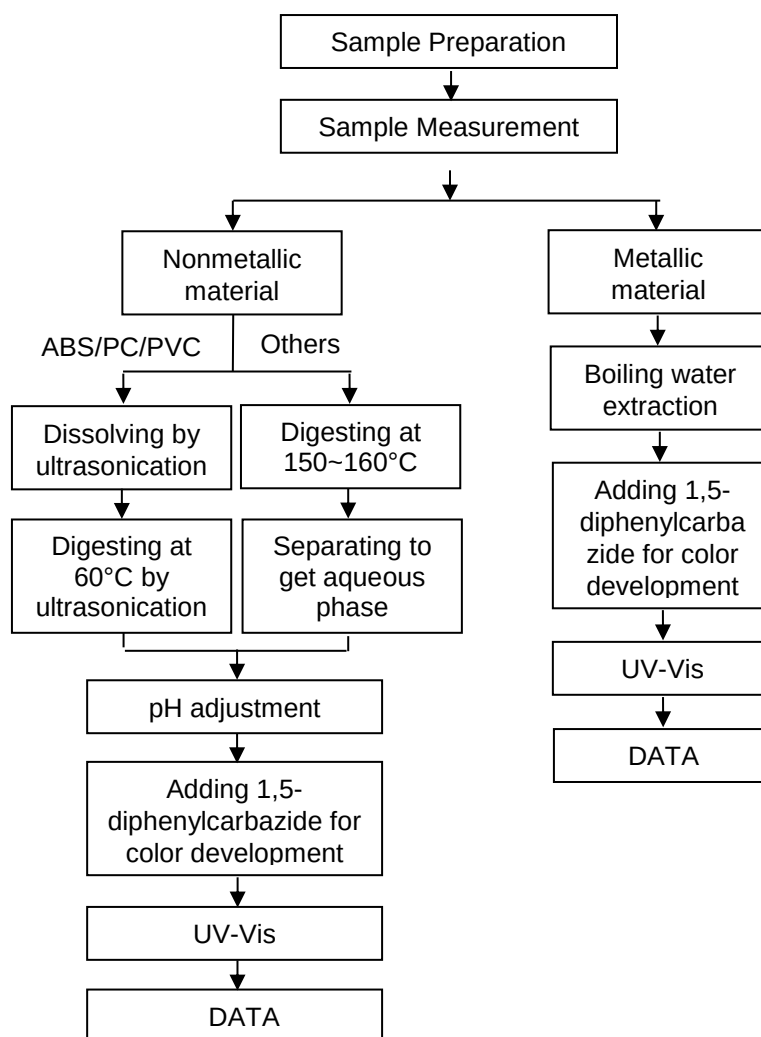
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



Test Report

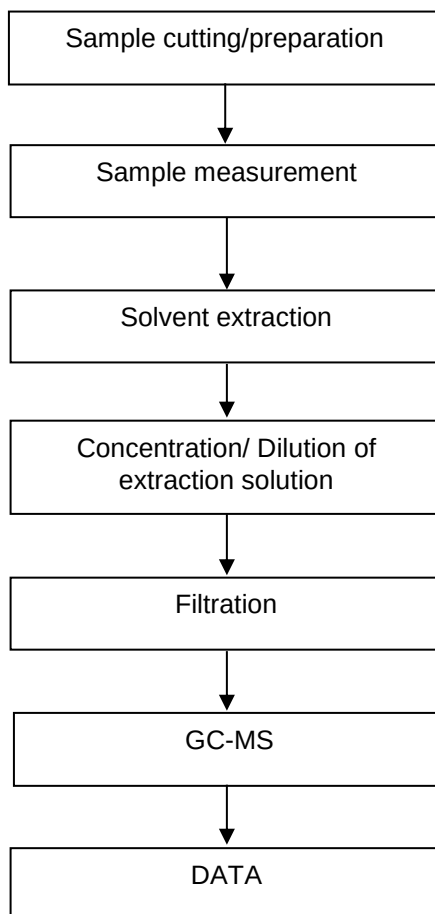
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PBBs/PBDEs Testing Flow Chart



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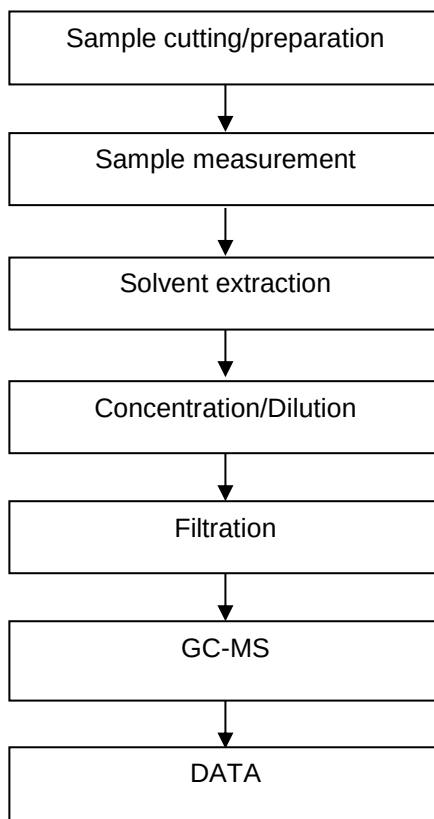
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Phthalates Testing Flow Chart



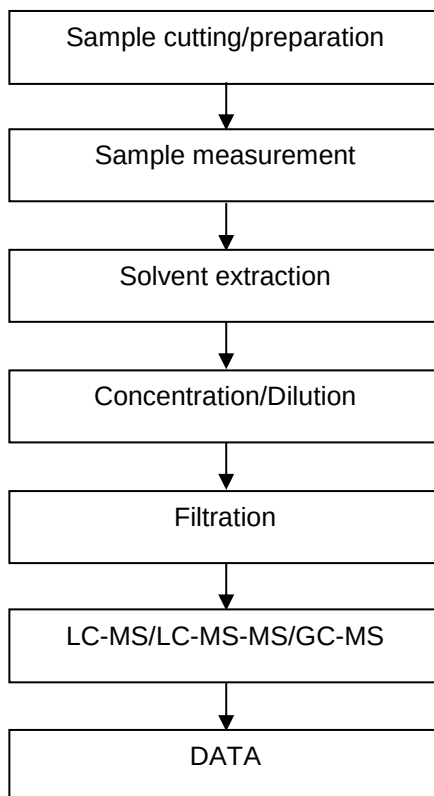
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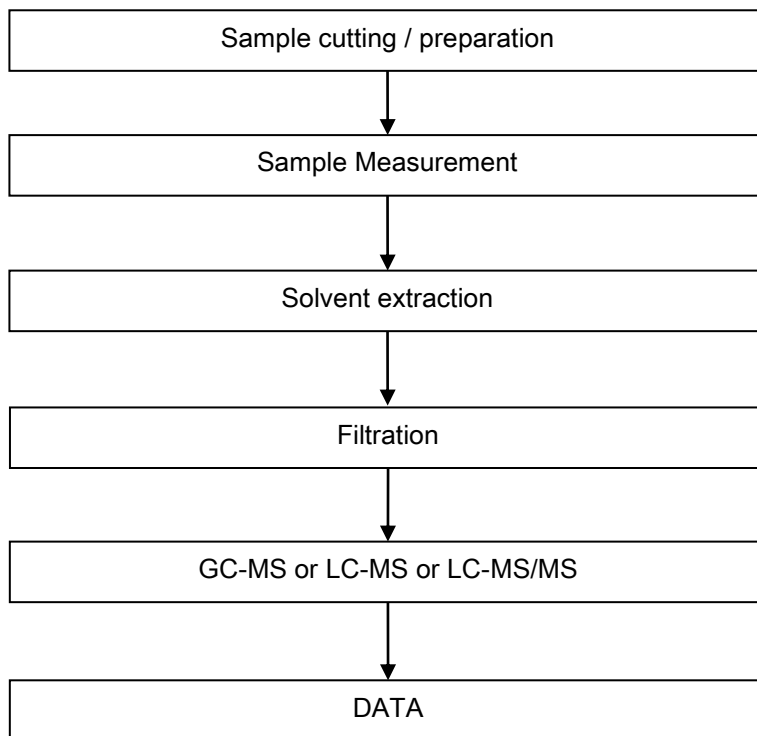
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PFASs/ PFOS/PFOA Testing Flow Chart



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TBBP-A Testing Flow Chart



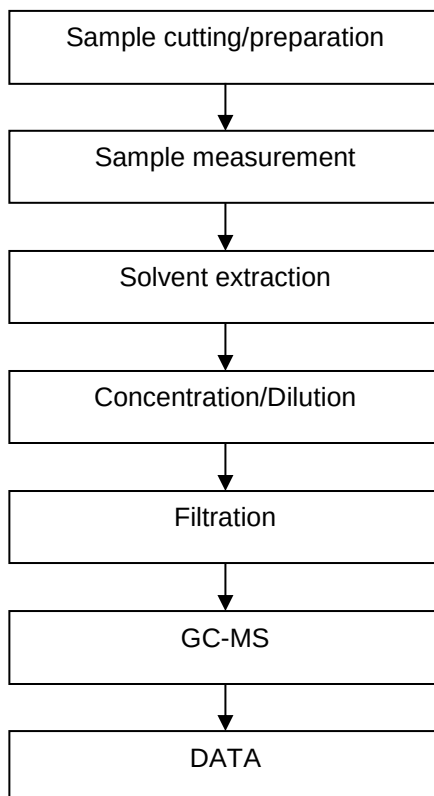
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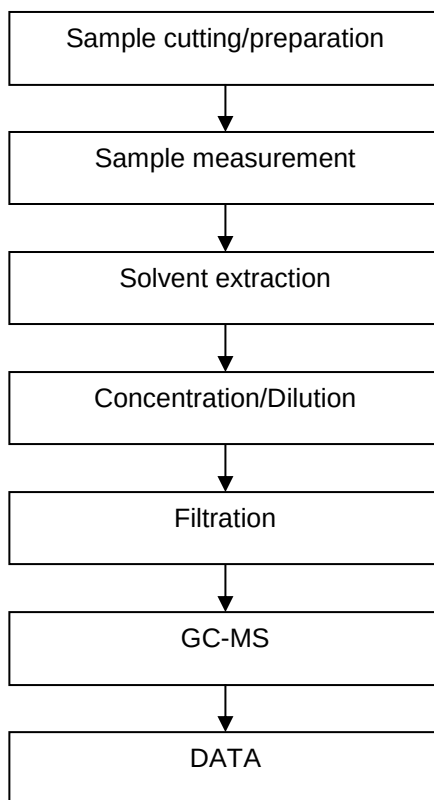
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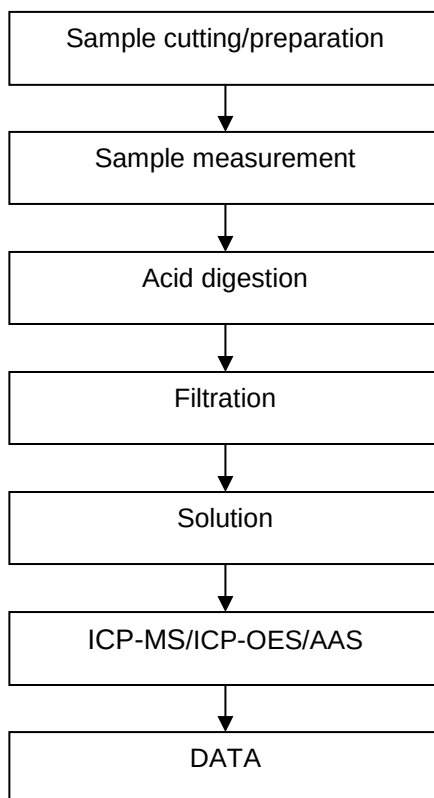
PAHs Testing Flow Chart



HBCDD Testing Flow Chart

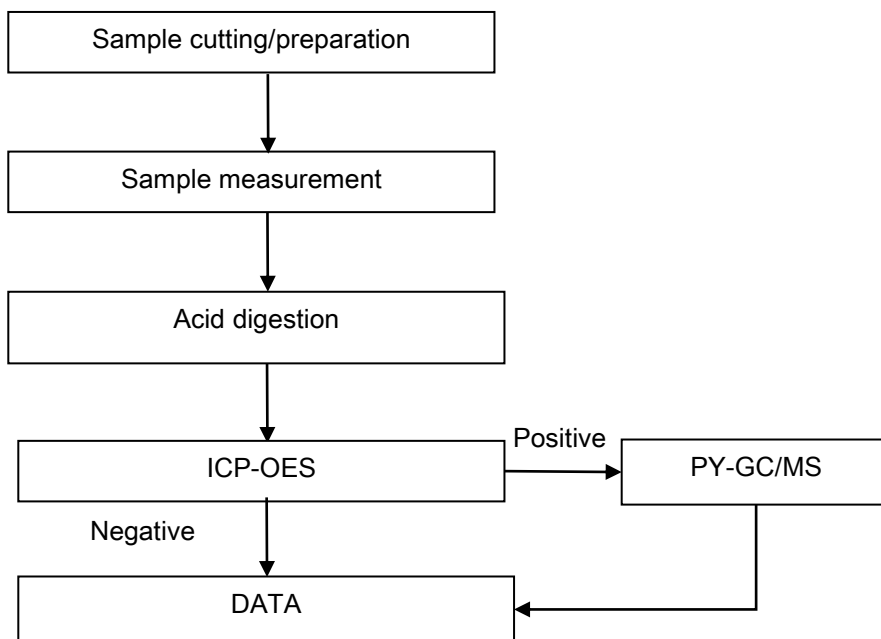


Elements Testing Flow Chart

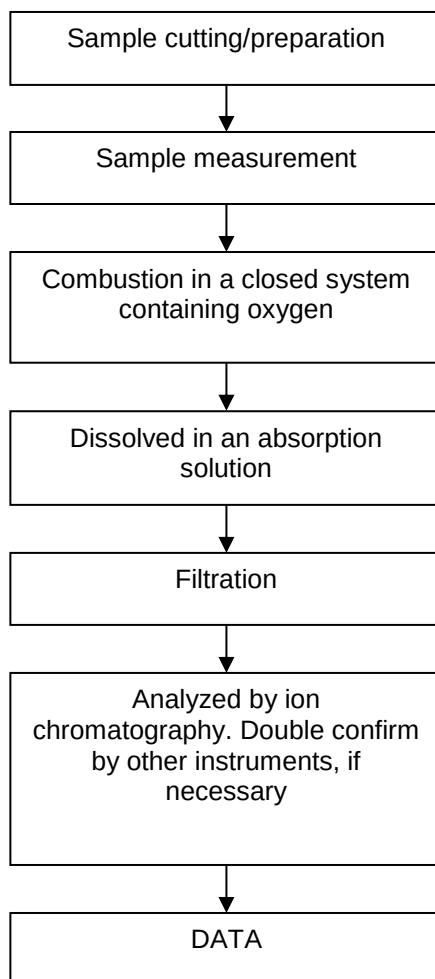


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Red phosphorus Testing Flow Chart

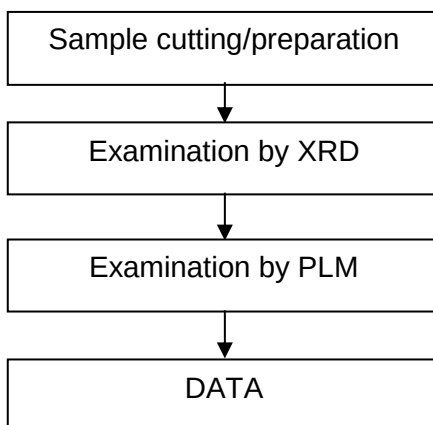


Halogen Testing Flow Chart



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Asbestos Testing Flow Chart



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