

Test Report

No.: SHAEC25002833501

Date: Mar 11, 2025

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Client Name: HENKEL CORPORATION

Client Address: 14000 Jamboree Road, Irvine, CA 92606

Sample Name: ATB 100 (ATB 120, ATB 125, ATB 130)

Style/Item No.: ATB 100 Series (ATB 120, ATB 125, ATB 130)

Sample Description: Adhesive Film

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

SGS Job No.: SHP25-002472

Sample Receiving Date: Feb 17, 2025

Testing Period: Feb 17, 2025 ~ Mar 11, 2025

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 Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Other items : <ul style="list-style-type: none"> - Hexabromocyclododecane (HBCDD) - Halogen - Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives - Polychlorinated Biphenyls(PCBs) - Polychlorinated Naphthalenes(PCNs) - Polychlorinated Terphenyls (PCTs) - Short Chain Chlorinated Paraffin (SCCP) - Organic-Tin compounds - Polyvinyl Chloride (PVC) 	See Results

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

Tom Ni

Tom Ni

Approved Signatory

Scan to see the report



DA3F1538



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Test Requested	Conclusion
- Antimony (Sb), Beryllium (Be), Arsenic (As) and Phosphorus (P) - Phthalates Content	

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA25-0028335-0001.C001	White translucent sheet

Remarks:

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

Test Item(s)	Method	Unit	MDL	Result	Limit
				A1	
Cadmium(Cd)	With reference to IEC 62321-5:2013, analysis was performed by ICP-OES.	mg/kg	2	ND	100
Lead(Pb)	With reference to IEC 62321-5:2013, analysis was performed by ICP-OES.	mg/kg	2	ND	1000
Mercury(Hg)	With reference to IEC 62321-4:2013+AMD1:2017, analysis was performed by ICP-OES.	mg/kg	2	ND	1000
Hexavalent Chromium(Cr(VI))	With reference to IEC 62321-7-2:2017, analysis was performed by UV-Vis.	mg/kg	8	ND	1000
Sum of PBB	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	-	ND	1000
Monobromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Dibromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Tribromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Tetrabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Pentabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-



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Test Item(s)	Method	Unit	MDL	Result	Limit
				A1	
Hexabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Heptabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Octabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Nonabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Decabromobiphenyl	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Sum of PBDE	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	-	ND	1000
Monobromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Dibromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Tribromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Tetrabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Pentabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Hexabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Heptabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Octabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Nonabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-
Decabromodiphenyl ether	With reference to IEC 62321-6:2015, analysis was performed by GC-MS.	mg/kg	5	ND	-



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Test Item(s)	Method	Unit	MDL	Result A1	Limit
Dibutyl phthalate (DBP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	1000
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	1000
Bis (2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	1000
Diisobutyl Phthalates (DIBP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	1000

Test Item(s)	Method	Unit	MDL	Result A1	Limit
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	With reference to IEC 62321-9:2021, analysis was performed by GC-MS.	mg/kg	20	ND	-
Chlorine (Cl)	With reference to EN 14582:2016, analysis was performed by IC.	mg/kg	50	325	-
Bromine (Br)	With reference to EN 14582:2016, analysis was performed by IC.	mg/kg	50	ND	-
Perfluorooctane sulfonic acid (PFOS), its salts [^]	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
Perfluorooctane Sulfonamide (PFOSA), its salts [^]	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-



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Test Item(s)	Method	Unit	MDL	Result	Limit
				A1	
	performed by LC-MS or LC-MS-MS.				
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	-	ND	-
Perfluorooctanoic acid (PFOA), its salts^	With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS-MS.	mg/kg	0.01	ND	-
Polychlorinated Biphenyls (PCBs)	With reference to US EPA 3550C-2007, analysis was performed by GC-MS.	mg/kg	0.5	ND	-
Polychlorinated Naphthalenes (PCNs)	With reference to US EPA 3550C-2007, analysis was performed by GC-MS.	mg/kg	5	ND	-
Polychlorinated Terphenyls (PCTs)	With reference to US EPA 3550C-2007, analysis was performed by GC-MS.	mg/kg	0.5	ND	-
Short Chain Chlorinated Paraffin (SCCP) (C ₁₀ -C ₁₃)	With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.	mg/kg	50	ND	-
Dibutyl tin (DBT)	With reference to ISO 17353:2004, analysis was performed by GC-MS.	mg/kg	0.03	ND	-
Tributyl tin (TBT)	With reference to ISO 17353:2004, analysis was performed by GC-MS.	mg/kg	0.03	ND	-
Diethyl tin (DOT)	With reference to ISO 17353:2004, analysis was performed by GC-MS.	mg/kg	0.03	ND	-
Triphenyl tin (TPhT)	With reference to ISO 17353:2004, analysis was performed by GC-MS.	mg/kg	0.03	ND	-
Bis(tributyltin) oxide (TBTO) ♦	With reference to ISO 17353:2004, analysis was performed by GC-MS.	mg/kg	-	ND	-



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Test Item(s)	Method	Unit	MDL	Result	Limit
				A1	
Polyvinyl chloride (PVC)	With reference to ASTM E1252-2021, analysis was performed by FTIR/HATR.	-	-	Negative	-
Beryllium (Be)	With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.	mg/kg	2	ND	-
Antimony (Sb)	With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.	mg/kg	2	ND	-
Diisononyl Phthalate (DINP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
Di-n-octyl Phthalate (DNOP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
Diisodecyl Phthalate (DIDP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
Bis(2-methoxyethyl) Phthalate (DMEP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
Dihexyl Phthalates (DnHP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
Diisoheptyl phthalate (DIHP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	With reference to IEC 62321-8:2017, analysis was performed by GC-MS.	mg/kg	50	ND	-

Notes:



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- (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.
- (4) Negative = Undetectable, Positive = Detectable.
- (5) ◆ = TBTO is back calculated based on TBT content.
- (6) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecyl-1-aminium heptafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄)	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6



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N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5



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Test Report

No.: SHAEC25002833501

Date: Mar 11, 2025

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Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6

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.



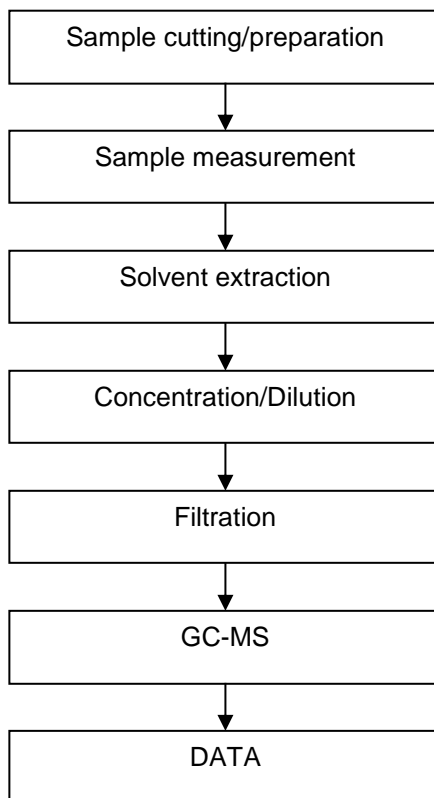
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HBCDD Testing Flow Chart



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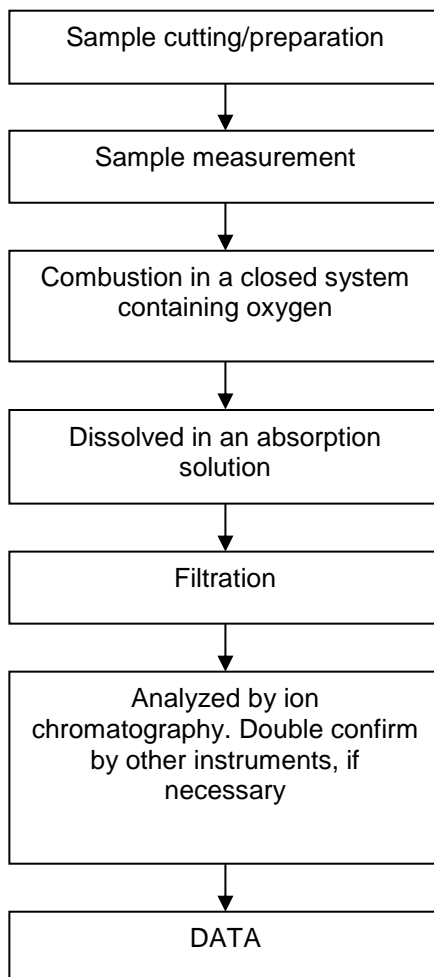
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Halogen Testing Flow Chart



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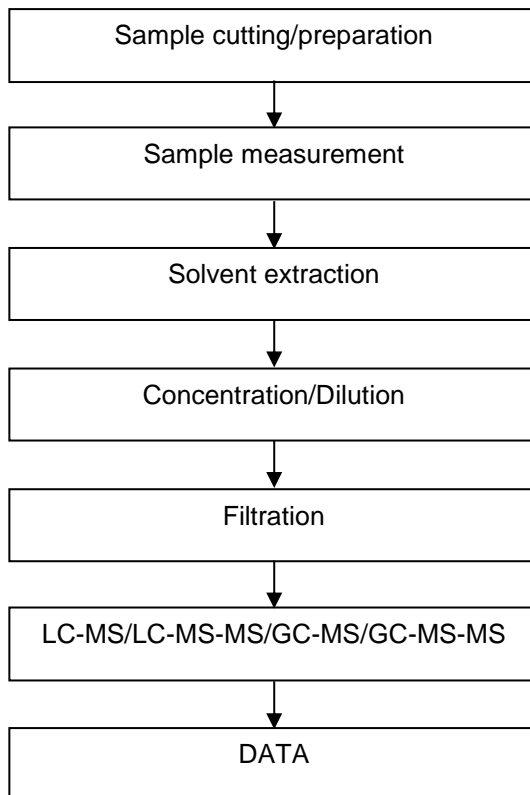
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PFASs/ PFOS/PFOA Testing Flow Chart



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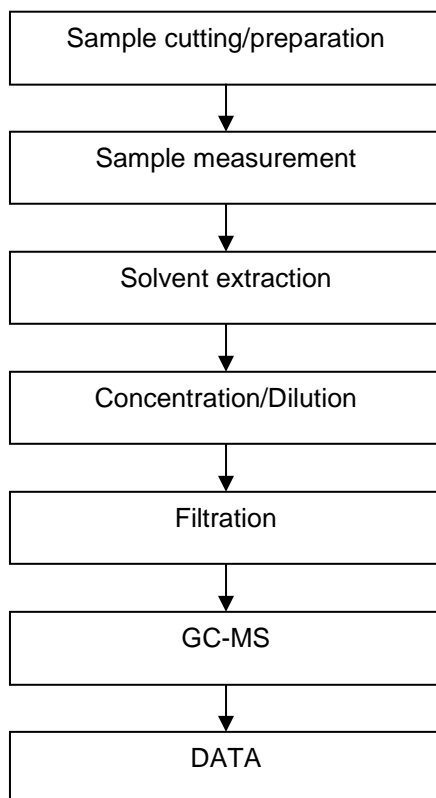
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PCB Testing Flow Chart



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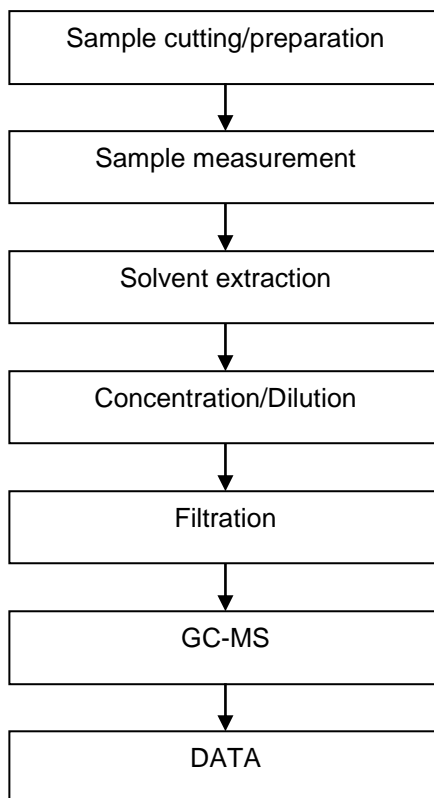
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PCN Testing Flow Chart



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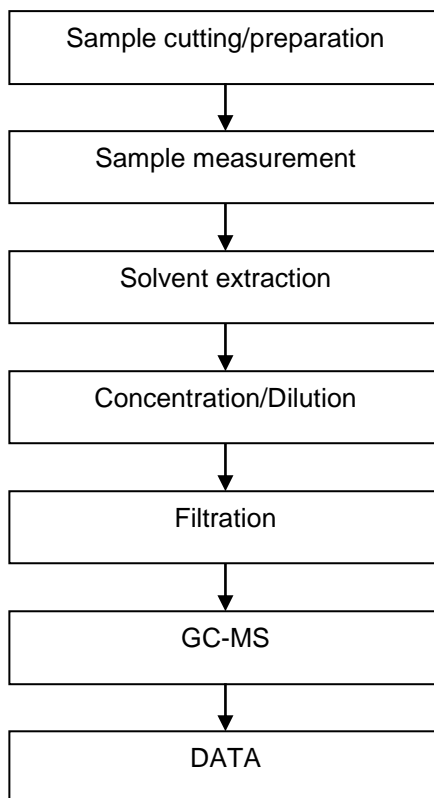
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PCT Testing Flow Chart



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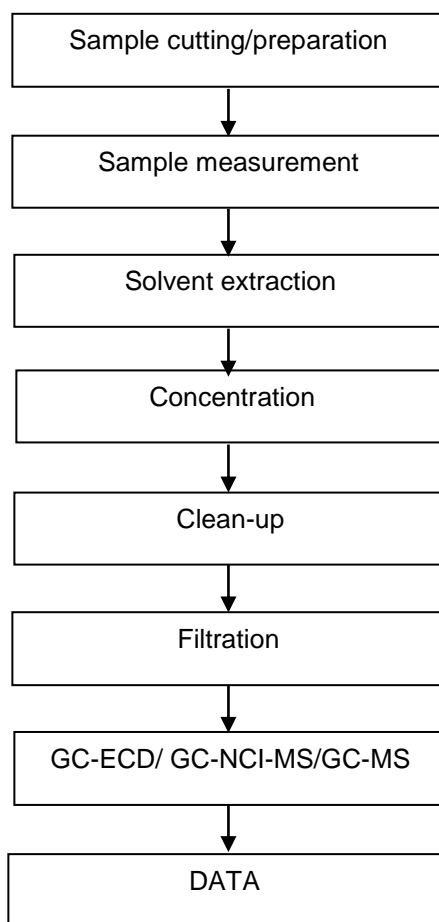
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Chlorinated Paraffin Testing Flow Chart



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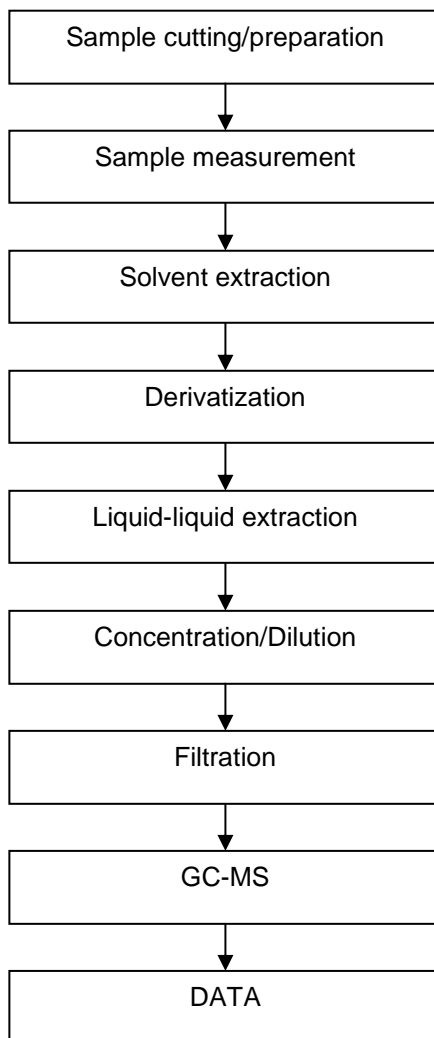
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Organotin Testing Flow Chart



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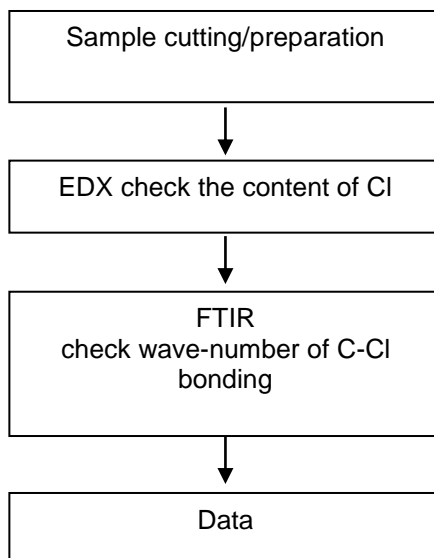
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PVC Testing Flow Chart



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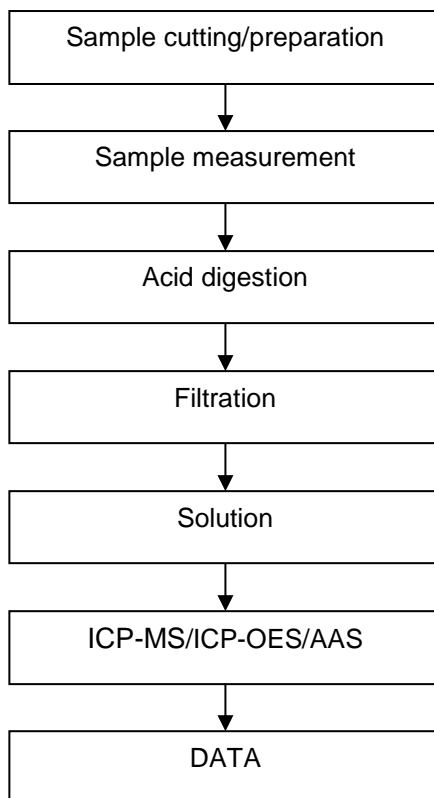
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Elements Testing Flow Chart



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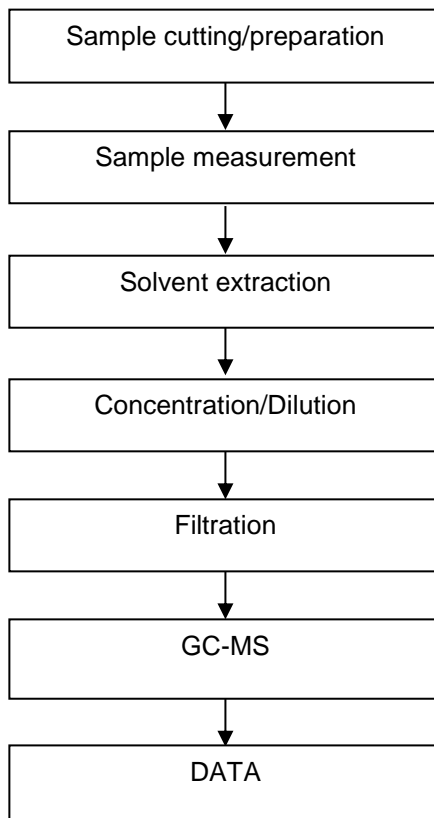
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Phthalates Testing Flow Chart



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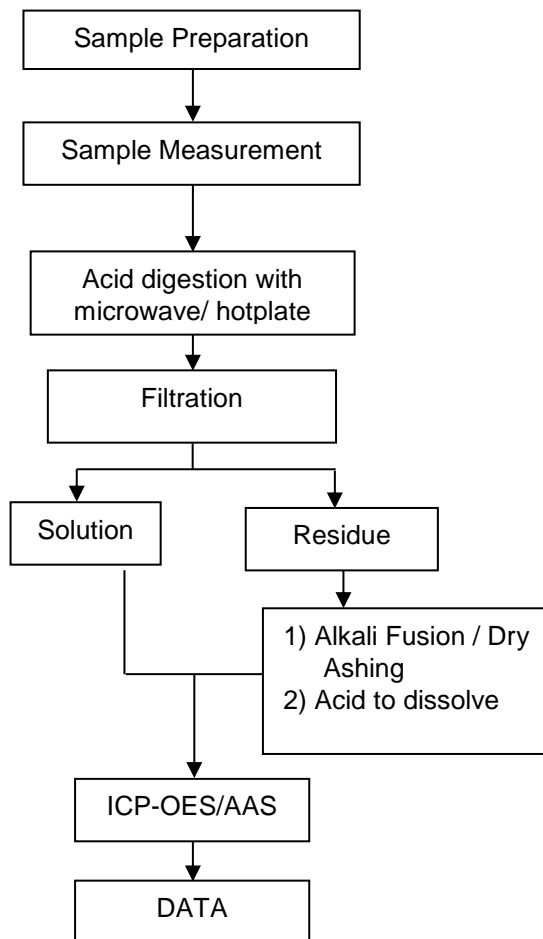
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Elements Testing Flow Chart

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



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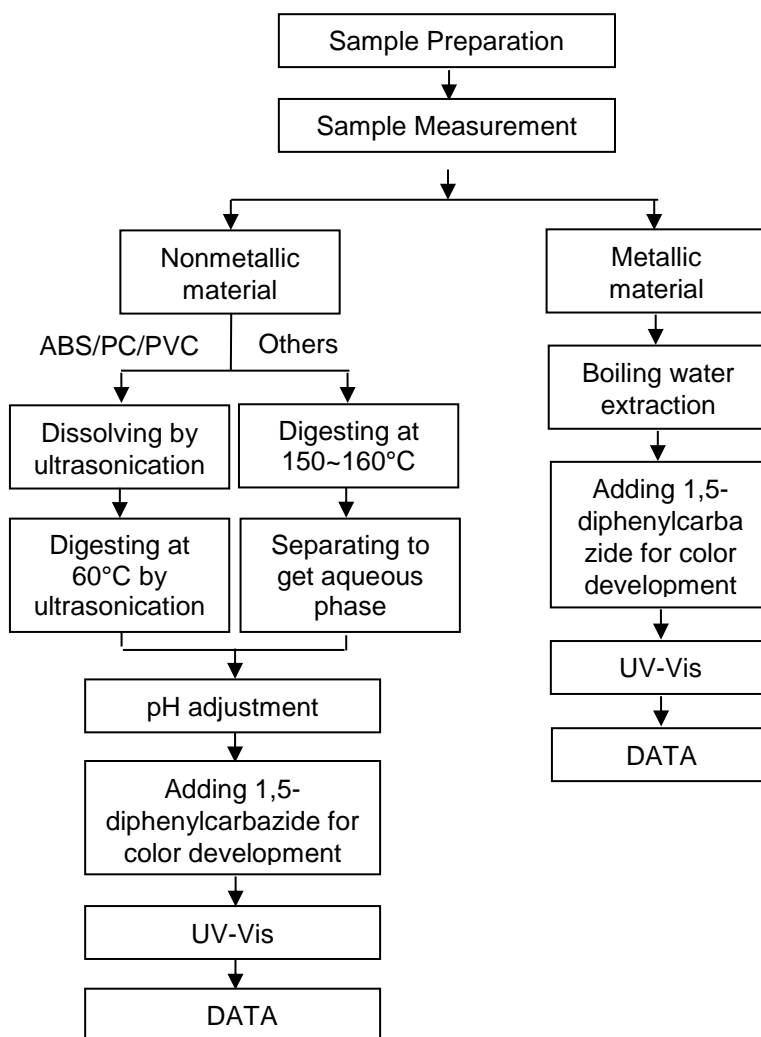
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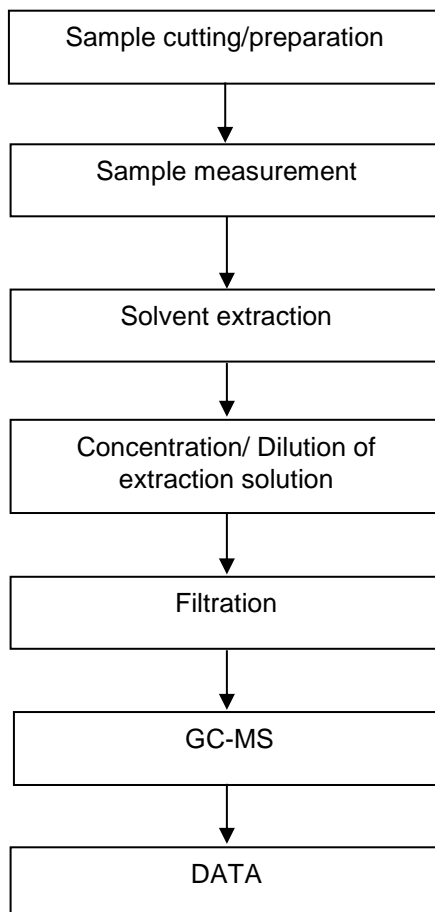
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE Testing Flow Chart



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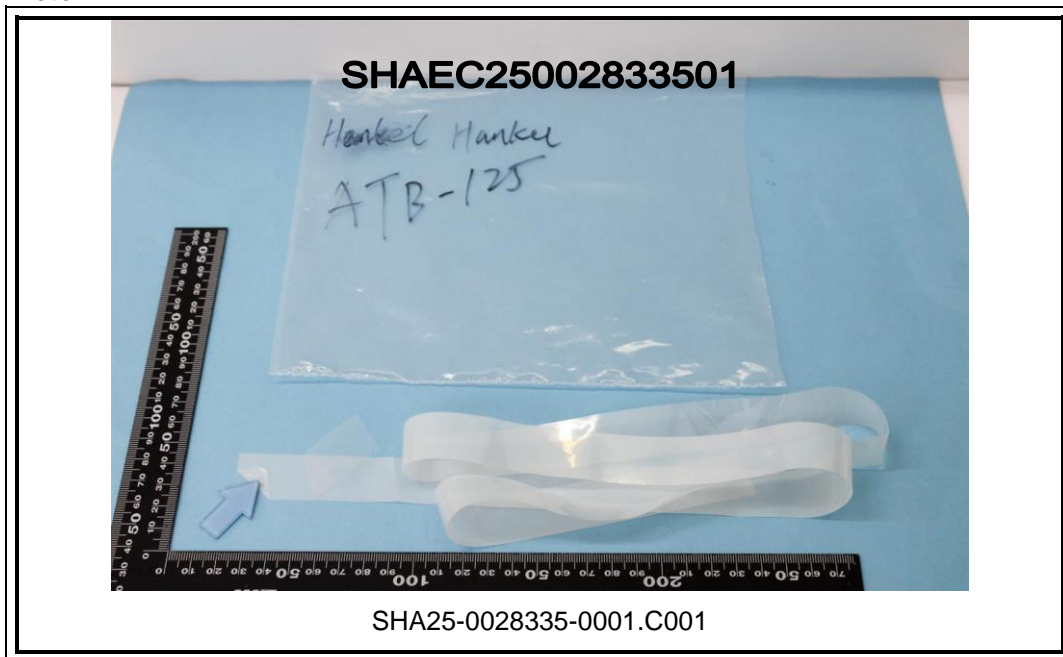
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