

## Test Report

No.: NGBEC24004576503

Date: Aug 19, 2024

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Client Name: KONFOONG MATERIALS INTERNATIONAL CO., LTD

Client Address: NO.198 ANSHAN RD .MINGBANG TECH &amp; INDUSTRY PARK, YUYAO,ZHEJIANG ,P. R. C

Sample Name: Ti

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

SGS Job No.: NBP24-004876

Sample Receiving Date: Aug 12, 2024

Testing Period: Aug 12, 2024 ~ Aug 19, 2024

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
Flame Retardants	See Results
Polyvinyl chloride (PVC)	See Results
European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds	Pass
Halogen	See Results
Elements	See Results
Perfluorinated Compounds (PFCs)	See Results
Phthalates	See Results
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 Diisobutylphthalate (DIBP)	Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

May Zhang

May Zhang

Approved Signatory

scan to see the report



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Ningbo Branch Chemical Laboratory

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## Test Result(s):

## Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	NGB24-0045765-0001.C002	Silver gray metal

## Remarks:

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

**Flame Retardants**

**Test Method:** With reference to US EPA 3550C:2007 and US EPA 8270E:2018, analysis was performed by GC-MS/HPLC-DAD-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	5	ND

**Polyvinyl chloride (PVC)**

**Test Method:** With reference to SGS in house method, analysis was performed by FTIR/HATR.

Test Item(s)	A2
Polyvinyl chloride (PVC)	Negative

**Notes:**

- (1) Negative=Undetectable, Positive=Detectable
- (2) The test was subcontracted to SGS Shanghai chemical lab.

**European Regulation POPs (EU) 2023/1608 amending to Regulation (EU) 2019/1021 Annex I-PFHxS, its salts and PFHxS related compounds**

**Test Method:** Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2
<b>PFHxS, its salts</b>					
Perfluorohexanesulfonic acid (PFHxS), its salts <sup>^</sup>	355-46-4	0.025	mg/kg	0.010	ND
<b>PFHxS-related compounds</b>					
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	1	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67584-61-6	1	mg/kg	0.200	ND
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester	67906-70-1	1	mg/kg	0.200	ND
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA), its salts^	68957-32-4	1	mg/kg	0.010	ND
Sum of PFHxS-related compounds	-	1	mg/kg	-	ND
<b>Conclusion</b>					<b>Pass</b>

### Notes:

- (1) Commission Delegated Regulation (EU) 2023/1608 of May 30, 2023, amending to Regulation (EU) 2019/1021 Annex I as regard the listing of perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Official Journal of the EU, August 8, 2023.

Substance	Scope	Specific exemption on intermediate use or other specification	Effective Date
PFHxS and its salts	Substances, mixtures or articles	≤ 0.025 mg/kg	August 28, 2023
PFHxS-related compounds	Substances, mixtures or articles	≤ 1 mg/kg (individual or sum of all)	August 28, 2023
PFHxS, its salts and PFHxS-related compounds	Concentrated firefighting foam	≤ 0.1 mg/kg (to be reviewed within three years after entry into force of this amending regulation with a view to lower the limit)	August 28, 2023

- (2) The tested perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds refer to the "Listed under the POPs Regulation" of ECHA, please find more information via below weblink: <https://echa.europa.eu/list-of-substances-proposed-as-pops>
- (3) ^=Substances refer to its salts/derivative listed in below table



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<b>PFHxS, its salts &amp; derivatives</b>	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4
Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li)	55120-77-9
Ammonium perfluorohexane-1-sulphonate (PFHxS-NH <sub>4</sub> )	68259-08-5
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52-3
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	108427-54-9
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	108427-55-0
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC <sub>4</sub> H <sub>9</sub> )	1187817-57-7
Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS) (PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )	1310480-24-0
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> )	1310480-27-3
Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> )	1310480-28-4
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )	1329995-45-0
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)(PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )	1329995-69-8
Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)	144116-10-9
Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )	1462414-59-0
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	153443-35-7
Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	189274-31-5
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-NH <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )	202189-84-2
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0
Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)(PFHxS-Sc)	350836-93-0



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Test Item(s)	CAS No.	Unit(s)	MDL	A2
Fluorine(F)	14762-94-8	mg/kg	20	ND
Chlorine(Cl)	22537-15-1	mg/kg	50	ND
Bromine(Br)	10097-32-2	mg/kg	50	ND
Iodine(I)	14362-44-8	mg/kg	50	ND

**Elements****Test Method:** With reference to US EPA 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Arsenic(As)	7440-38-2	mg/kg	10	ND
Beryllium(Be)	7440-86-3	mg/kg	5	ND
Antimony(Sb)	7440-36-0	mg/kg	10	ND

**Perfluorinated Compounds (PFCs)****Test Method:** With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Perfluorooctane sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)+	-	mg/kg	0.01	ND

**Notes:**

(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<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>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-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7).

(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) and APFO (CAS No.: 3825-26-1).

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

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND

**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 Diisobutylphthalate (DIBP)**



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**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Lead(Pb)	7439-92-1	1000	mg/kg	2	ND
Mercury(Hg)	7439-97-6	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	-	µg/cm <sup>2</sup>	0.10	ND
Polybromobiphenyl (PBBs)	-	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	002113-57-7	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	000092-86-4	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	059080-33-0	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	060044-24-8	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	059080-39-6	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	059080-40-9	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	067733-52-2	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	027858-07-7	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	069278-62-2	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	013654-09-6	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	-	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	101-55-3	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	2050-47-7	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	147217-80-9	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	93703-48-1	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	182677-28-7	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	189084-67-1	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	337513-72-1	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	63387-28-0	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	1163-19-5	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	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) ▼ =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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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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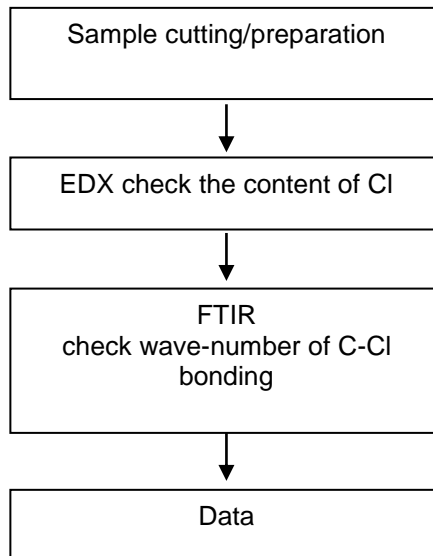
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### PVC Testing Flow Chart



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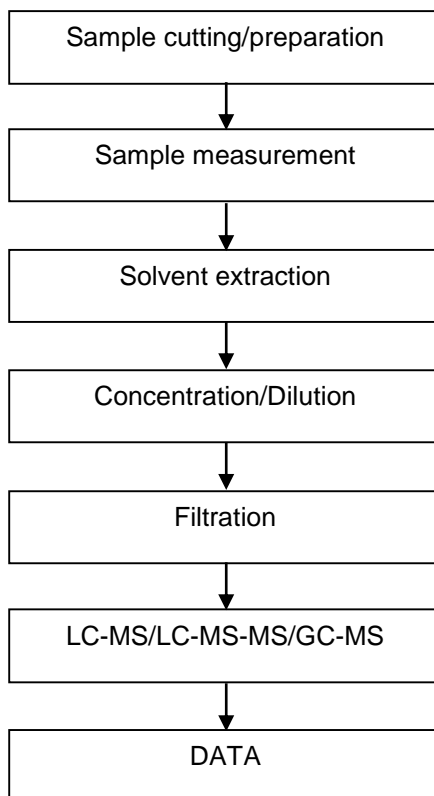
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## PFASs/ PFOS/PFOA Testing Flow Chart



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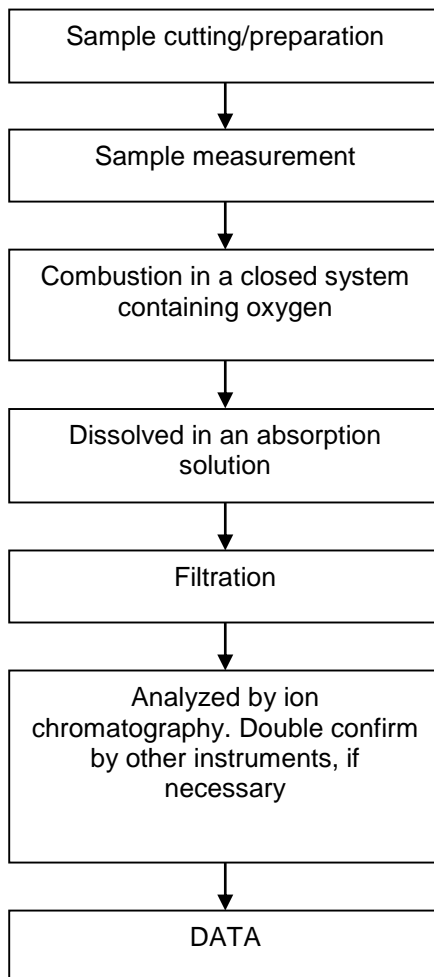
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### Halogen Testing Flow Chart



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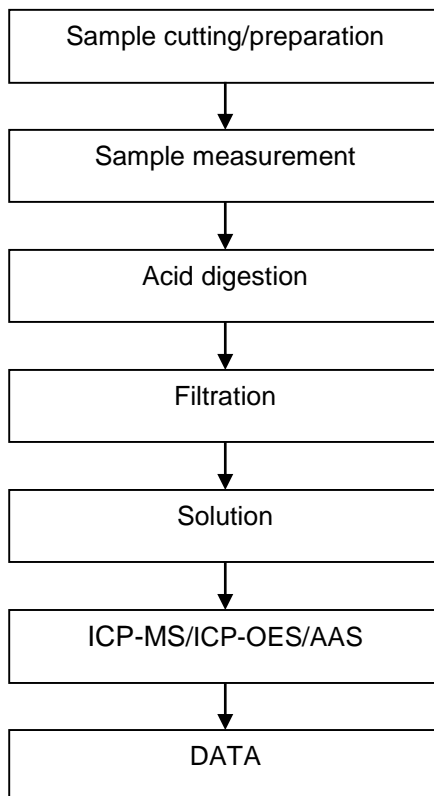
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## Elements Testing Flow Chart



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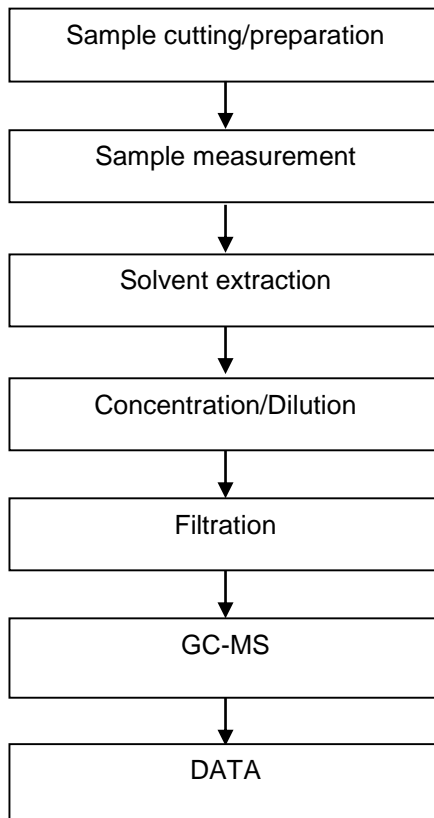
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### Phthalates Testing Flow Chart



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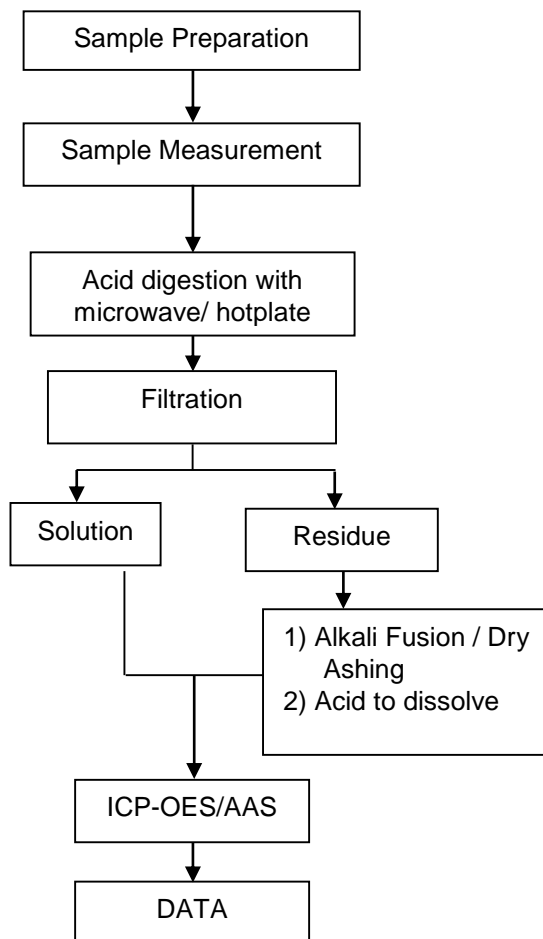
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### Elements Testing Flow Chart

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



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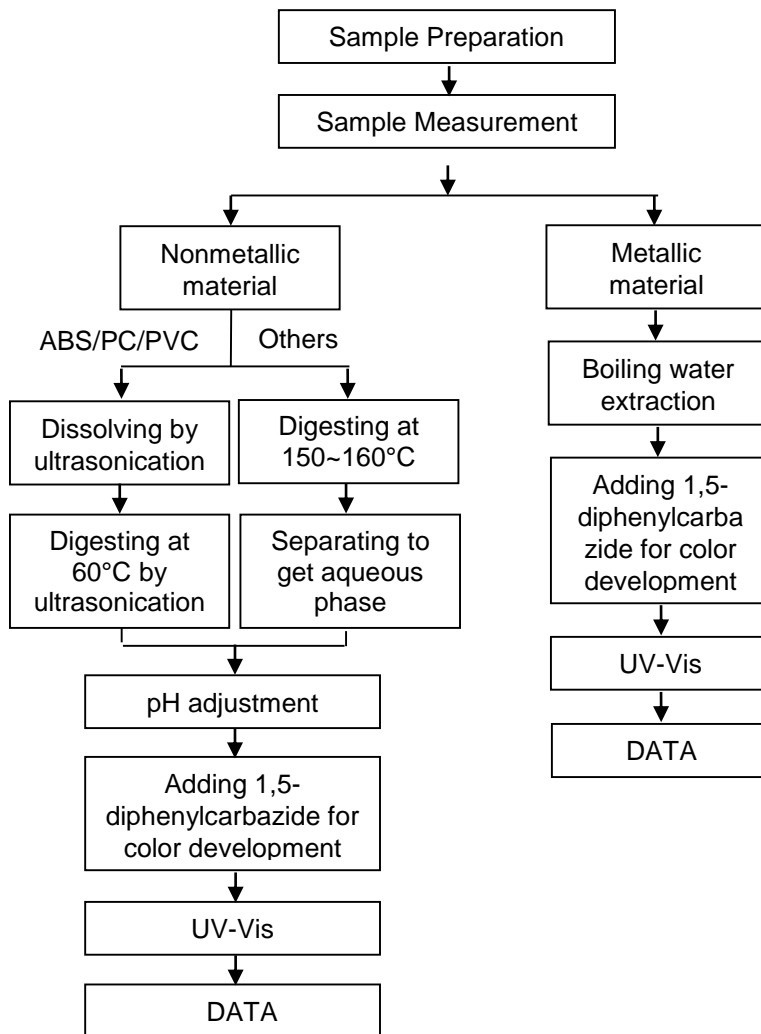
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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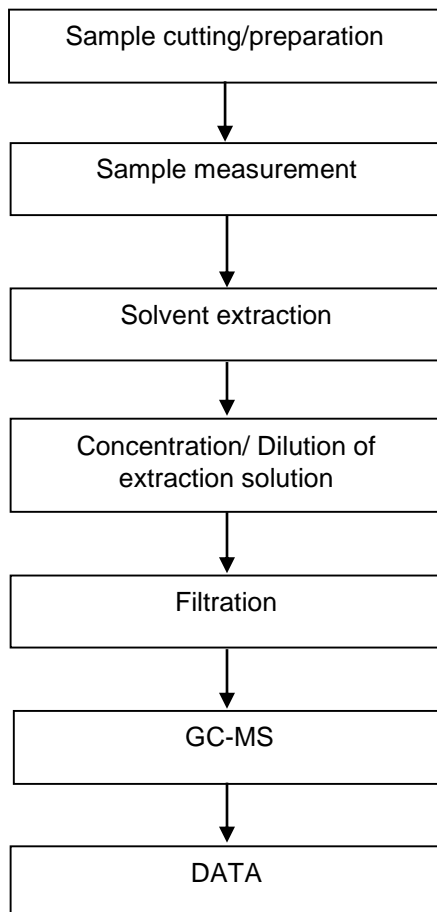
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### PBB/PBDE Testing Flow Chart



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