

# Test Report

No.: CANEC23010184003

Date: Oct 07, 2023

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Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

Client Address: 23/F., DELTA HOUSE, NO.3 ON YIU STREET, SHATIN, N.T. HONG KONG.

Sample Name: KB-6164F

Model No.: KB-6164F

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

SGS Job No.: GZP23-012527

Sample Receiving Date: Sep 18, 2023

Testing Period: Sep 18, 2023 ~ Sep 27, 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
Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)	Pass
Halogen	See Results
Element(s)	See Results

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



Jany Zhong  
Approved Signatory

scan to see the report



656BEC73



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, Chemical Laboratory

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Test Requirement	Conclusion
Red Phosphorus	See Results
Polychlorinated Biphenyls (PCBs)	See Results
Benzotriazole UV Absorbent	See Results
Chlorinated Paraffins	See Results
Formaldehyde	See Results
Hexabromocyclododecane (HBCDD)	See Results
Organic-Tin compounds	See Results
Phthalates	See Results

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0101840-0001.C001	Copper clad yellow laminate(only test part without red "KB" printing)

### 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	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	4
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



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Test Item(s)	Limit	Unit(s)	MDL	A1
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
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	A1
<b>PFOS, its salts and related compounds</b>				
Perfluorooctane sulfonates (PFOS) <sup>Note (1)</sup>	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



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
<b>PFOA, its salts</b>				
Perfluorooctanoic acid (PFOA) <sup>Note (2)</sup>	335-67-1	mg/kg	0.010	ND
<b>PFOA-related compounds</b>				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) <sup>Note (3)</sup>	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) <sup>Note (3)</sup>	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H <sub>2</sub> PFDA/8:2 FTCA) <sup>Note (3), Note (11)</sup>	27854-31-5	mg/kg	0.010	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
<b>C9-C14 PFCA, their salts</b>				
Perfluorononane Acid (PFNA) <sup>Note (4)</sup>	375-95-1	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA) <sup>Note (4)</sup>	335-76-2	mg/kg	0.010	ND
Perfluoroundecanoic Acid (PFUnDA) <sup>Note (22)</sup>	2058-94-8	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA) <sup>Note (4)</sup>	307-55-1	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTrDA) <sup>Note (24)</sup>	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
<b>C9-C14 PFCA-related substances</b>				
Perfluorodecane Sulfonate (PFDS) <sup>Note (10)</sup>	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-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H <sub>4</sub> PFUnDA/ 8:3 FTCA) <sup>Note (12)</sup>	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



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
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) <sup>Note (3)</sup>	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) <sup>Note (3)</sup>	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) <sup>Note (3)</sup>	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) <sup>Note (3)</sup>	1996-88-9	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) <sup>Note (3), Note (11)</sup>	27854-31-5	mg/kg	0.010	ND
Sum of C9-C14-related substances	-	mg/kg	-	ND
<b>PFHxS, its salts</b>				
Perfluorohexane Sulfonate (PFHxS) <sup>Note (7)</sup>	355-46-4	mg/kg	0.010	ND
<b>PFHxS-related compounds</b>				
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
<b>Other PFAS</b>				
Perfluorobutane Acid (PFBA) <sup>Note (13)</sup>	375-22-4	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS) <sup>Note (5)</sup>	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 <sub>3</sub> H <sub>8</sub> O)	34454-97-2	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA) <sup>Note (17)</sup>	2706-90-3	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA) <sup>Note (6)</sup>	307-24-4	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA) <sup>Note (14)</sup>	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) <sup>Note (8)</sup>	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPPFA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) <sup>Note (26)</sup>	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



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2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) <sup>Note (9)</sup>	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) <sup>Note (18)</sup>	2706-91-4	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS) <sup>Note (19)</sup>	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS) <sup>Note (16)</sup>	749786-16-1	mg/kg	0.010	ND
Perfluorododecanesulfonic acid (PFDoDS) <sup>Note (20)</sup>	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS) <sup>Note (21)</sup>	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) <sup>Note (15)</sup>	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 (9Cl-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-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



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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-Heptadecafluoro-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) <small>Note (23)</small>	1765-48-6	mg/kg	0.1	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
  - 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<sub>4</sub> 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<sub>4</sub> 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<sub>4</sub> 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



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- PFDODA refer to its salts including
- PFDODA-NH<sub>4</sub> 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<sub>2</sub>O CAS No.: 59933-66-3
- PFBS-Li CAS No.: 131651-65-5
- TPS-PFBS CAS No.: 144317-44-2
- PFBS-S(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> CAS No.: 220133-51-7
- PFBS-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 220689-12-3
- PFBS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 25628-08-4
- PFBS-F CAS No.: 375-72-4
- PFBS-NC<sub>4</sub>H<sub>9</sub>O CAS No.: 503155-89-3
- PFBS-Mg CAS No.: 507453-86-3
- PFBS-NH<sub>4</sub> CAS No.: 68259-10-9
- PFBS-SC<sub>18</sub>H<sub>23</sub>O CAS No.: 209482-18-8
- PFBS-Cl CAS No.: 2991-84-6
- PFBS-Na CAS No.: 60453-92-1
- PFBS-I(C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>(C<sub>4</sub>H<sub>9</sub>)<sub>2</sub> CAS No.: 194999-85-4
- PFBS-NH(C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub> 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<sub>4</sub> CAS No.: 68259-08-5
- PFHxS-BTPP CAS No.: 1000597-52-3
- PFHxS-N(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> CAS No.: 108427-54-9
- PFHxS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> CAS No.: 108427-55-0
- PFHxS-NC<sub>4</sub>H<sub>9</sub> CAS No.: 1187817-57-7
- PFHxS-(NC<sub>10</sub>H<sub>14</sub>)<sub>3</sub>C<sub>5</sub>H<sub>4</sub> CAS No.: 1310480-24-0
- PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>13</sub>H<sub>12</sub> CAS No.: 1310480-27-3
- PFHxS-(NC<sub>8</sub>H<sub>10</sub>)<sub>2</sub>C<sub>17</sub>H<sub>12</sub> CAS No.: 1310480-28-4
- PFHxS-C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> CAS No.: 1329995-45-0
- PFHxS-C<sub>48</sub>H<sub>80</sub>O<sub>40</sub> CAS No.: 1329995-69-8
- TPS-PFHxS CAS No.: 144116-10-9
- PFHxS-C<sub>44</sub>H<sub>37</sub>N<sub>2</sub>O<sub>2</sub> CAS No.: 1462414-59-0
- PFHxS-I(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub> CAS No.: 153443-35-7
- PFHxS-TMA CAS No.: 189274-31-5
- PFHxS-NH<sub>2</sub>(CH<sub>3</sub>)<sub>3</sub> CAS No.: 202189-84-2
- PFHxS-I(C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>(C<sub>4</sub>H<sub>9</sub>)<sub>2</sub> CAS No.: 213740-81-9
- PFHxS-Ga CAS No.: 341035-71-0
- PFHxS-S(C<sub>7</sub>H<sub>7</sub>)<sub>2</sub>C<sub>6</sub>H<sub>5</sub> 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



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PFHxS-S <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub>	CAS No.: 421555-73-9
PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>11</sub> ) <sub>2</sub>	CAS No.: 421555-74-0
PFHxS-F	CAS No.: 423-50-7
PFHxS-S(C <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub>	CAS No.: 425670-70-8
PFHxS-Zn	CAS No.: 70136-72-0
PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub>	CAS No.: 70225-16-0
PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub>	CAS No.: 72033-41-1
PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	CAS No.: 866621-50-3
PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub>	CAS No.: 910606-39-2
PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>9</sub> O <sub>2</sub>	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC <sub>28</sub> H <sub>31</sub> O <sub>4</sub>	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 <sub>4</sub>	CAS No.: 68259-07-4
PFHpS-Li	CAS No.: 117806-54-9
(9) HFPO-DA refers to its salts including	
HFPO-DA-NH <sub>4</sub>	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 <sub>4</sub>	CAS No.: 67906-42-7
(11) H <sub>2</sub> PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub>	CAS No.: 882489-14-7
(12) H <sub>4</sub> PFUnDA/ 8:3 FTCA refer to its salts including	
H <sub>4</sub> PFUnDA-K	CAS No.: 83310-58-1
(13) PFBA refers to its salts including	
PFBA-NH <sub>4</sub>	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 <sub>4</sub>	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 <sub>4</sub>	CAS No.: 68259-11-0



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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 <sub>4</sub>	CAS No.: 68259-09-6
(19)PFNS refers to its salts including	
PFNS-Na	CAS No.: 98789-57-2
PFNS-NH <sub>4</sub>	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 <sub>4</sub>	CAS No.: 4234-23-5
PFUnDA-K	CAS No.: 30377-53-8
(23)11H-PFUnDA refers to its salts including	
11H-PFUnDA-K	CAS No.: 307-71-1
11H-PFUnDA-NH <sub>4</sub>	CAS No.: 5081-02-7
(24)PFTTrDA refers to its salts including	
PFTTrDA-NH <sub>4</sub>	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-NH <sub>4</sub>	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	A1
Tetrabromobisphenol A(TBBP-A)	79-94-7	mg/kg	5	ND

## Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Alkanes C <sub>14</sub> -C <sub>17</sub> , chloro (medium- chain chlorinated paraffins) (MCCPs)	85535-85-9 and others	mg/kg	50	ND



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## 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	A1
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	-	-	-	-

### 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 <sup>a,b</sup> 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 <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .	a. use by children	b. other consumer products	a. use by children



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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
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		
<b>Sum of 15 PAHs</b>	<1	< 5	< 10	< 20	< 50

**Notes:**

- <sup>a</sup> A “Child” is legally defined as a person before reaching the age of 14 years.
- <sup>b</sup> Use by children includes both active and passive contact by children.
- <sup>c</sup> Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
- <sup>d</sup> 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.

**Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)**



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Test Method: SGS In-house method (SGS-CCL-TOP-149-07, With reference to US EPA Method 3550C:2007), analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Decabromodiphenyl ether (DecaBDE) <sup>Δ1</sup>	1163-19-5	Prohibited	mg/kg	5	ND
Phenol, isopropylated phosphate (3:1) (PIP 3:1) <sup>Δ2</sup>	68937-41-7	Prohibited	mg/kg	5	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) <sup>Δ3</sup>	732-26-3	3000	mg/kg	5	ND
Hexachlorobutadiene (HCBd)	87-68-3	Prohibited	mg/kg	5	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	5	ND
<b>Conclusion</b>					<b>Pass</b>

### Notes:

(1) The regulation is available at the following link.

<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>

(2) <sup>Δ1</sup>: The submitted sample is exempted if it is plastic for recycling from products or articles containing Deca-BDE.

(3) <sup>Δ2</sup>: The submitted sample is exempted from the regulated scope if it is anyone of the following:

- Hydraulic fluids for aviation or military industry;
- Lubricants and grease;
- New and replacement parts for motor and aerospace vehicles;
- Intermediate in a closed system to produce cyanoacrylate adhesive;
- Specialized engine air filters for locomotive and marine applications;
- Plastic for recycling from products or articles containing PIP (3:1);
- Finished products or articles made of plastic recycled from products or articles containing PIP (3:1).

(4) <sup>Δ3</sup>: The submitted sample is out of the regulated scope if it is not oil or lubricant.

### Halogen

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

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	1198
Chlorine(Cl)	mg/kg	50	217
Bromine(Br)	mg/kg	50	27742
Iodine(I)	mg/kg	50	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	A1
Arsenic(As)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND



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## Test Report

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Test Item(s)	Unit(s)	MDL	A1
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	A1
Red Phosphorus	7723-14-0	mg/kg	500	ND

### Polychlorinated Biphenyls (PCBs)

Test Method: SGS In-house method (GZTC CHEM-TOP-032-01, with reference to EPA 8082A:2007), analysis was performed by GC-ECD/GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
2,4,4'-Trichlorobiphenyl(PCB28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachlorobiphenyl(PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachlorobiphenyl(PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5'-Pentachlorobiphenyl(PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180)	35065-29-3	mg/kg	0.5	ND

### Benzotriazole UV Absorbent

Test Method: SGS In-house method(GZTC CHEM-TOP-102, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol(UV 320)	3846-71-7	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4(tert-butyl)-6-(sec-butyl)phenol (UV 350)	36437-37-3	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol(UV 328)	25973-55-1	mg/kg	5	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV 327)	3864-99-1	mg/kg	5	ND

### Chlorinated Paraffins

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Short Chain Chlorinate Paraffins(SCCP)(C <sub>10</sub> -C <sub>13</sub> )	85535-84-8	mg/kg	50	ND

### Formaldehyde

Test Method: With reference to ISO 14184-1:2011, analysis was performed by UV-Vis.

Test Item(s)	Unit(s)	MDL	A1
Formaldehyde	mg/kg	16	ND

### Hexabromocyclododecane (HBCDD)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

### Organic-Tin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A1
Dibutyl tin(DBT)	mg/kg	0.02	ND
Tributyl tin(TBT)	mg/kg	0.02	ND
Diocetyl tin(DOT)	mg/kg	0.02	ND
Triphenyl tin(TPhT)	mg/kg	0.02	ND
Tricyclohexyltin(TCyHT)	mg/kg	0.02	ND
Trimethyltin(TMT)	mg/kg	0.02	ND
Trioctyltin(TOT)	mg/kg	0.02	ND
Tri-n-propyltin(TPT)	mg/kg	0.02	ND

### Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	mg/kg	50	ND



Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diphenyl Phthalate(DPhP)	84-62-8	mg/kg	50	ND
Diundecyl Phthalate(DUDP)	3648-20-2	mg/kg	50	ND
Dimethyl Phthalate(DMP)	131-11-3	mg/kg	50	ND
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	ND
Dipropyl Phthalate(DPrP)	131-16-8	mg/kg	50	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	mg/kg	50	ND
Dibenzyl Phthalate(DBzP)	523-31-9	mg/kg	50	ND
Dinonyl Phthalate(DNP)	84-76-4	mg/kg	50	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	mg/kg	50	ND
Diallyl Phthalate(DAP)	131-17-9	mg/kg	50	ND
n-Decyl-n-Octyl Phthalate(nDnOP)	119-07-3	mg/kg	50	ND
Di-n-Decyl Phthalate(DnDP)	84-77-5	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	mg/kg	50	ND
Bis(2-n-butoxyethyl)Phthalate(DBEP)	117-83-9	mg/kg	50	ND
Bis(4-methyl-2-pentyl)Phthalate(BMPP)	146-50-9	mg/kg	50	ND
Bis(2-ethoxyethyl)Phthalate(DEEP)	605-54-9	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	mg/kg	50	ND
Di-n-Heptyl Phthalate(DnHpP)	3648-21-3	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear (DPP)	84777-06-0	mg/kg	50	ND
Ditridecyl Phthalate(DTDP)	119-06-2	mg/kg	50	ND
1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)	68515-50-4	mg/kg	50	ND
Di-(2-Ethylhexyl)Adipate(DEHA)	103-23-1	mg/kg	50	ND
Diocetyl Terephthalate(DOTP)	6422-86-2	mg/kg	50	ND
Diisononyl Adipate(DINA)	33703-08-1	mg/kg	50	ND
Di(2-propylheptyl)Phthalate(DPHpP)	53306-54-0	mg/kg	50	ND
Acetyl Tributyl Citrate(ATBC)	77-90-7	mg/kg	50	ND
Triocetyl trimellitate(TOTM)	3319-31-1	mg/kg	50	ND

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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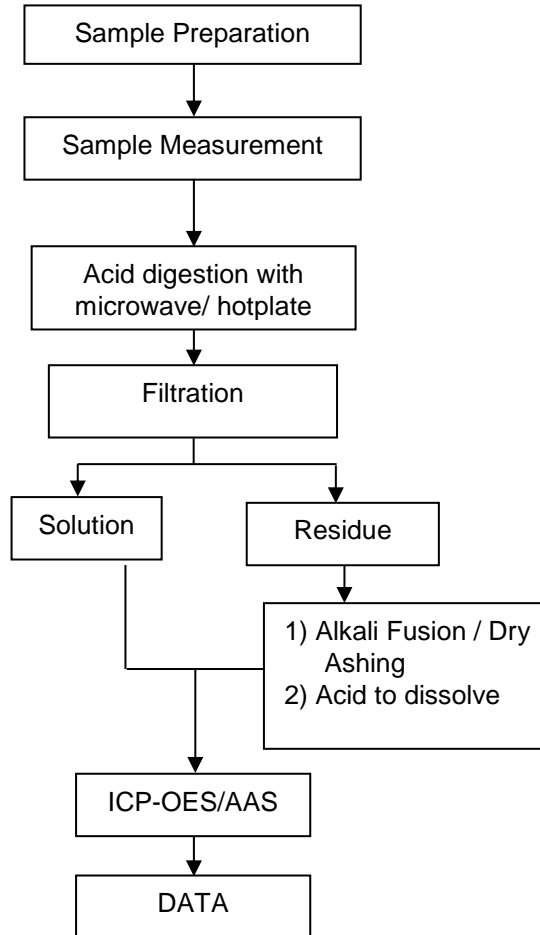
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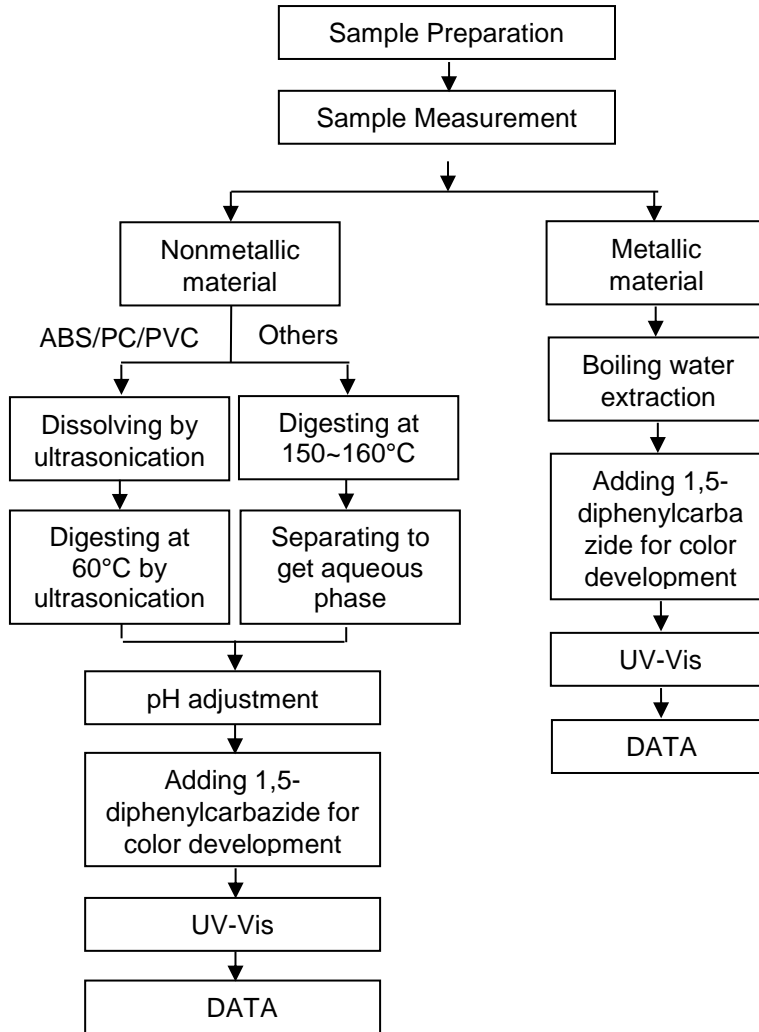
**Elements Testing Flow Chart**

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



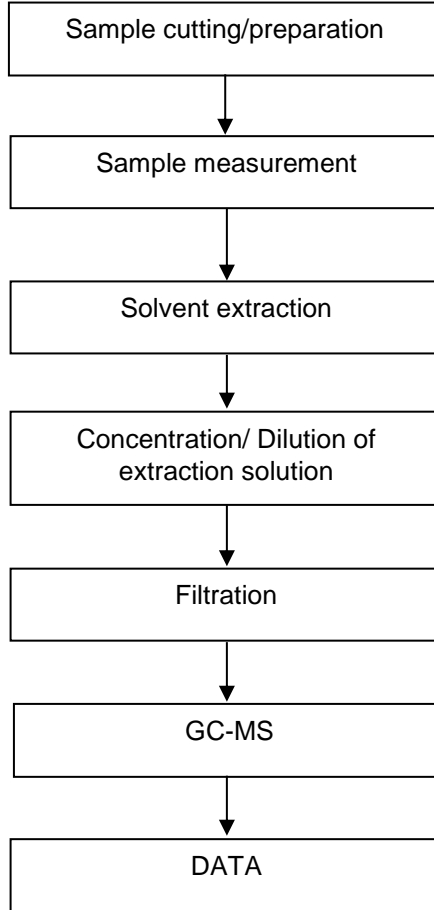
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**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**



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**PBBs/PBDEs Testing Flow Chart**



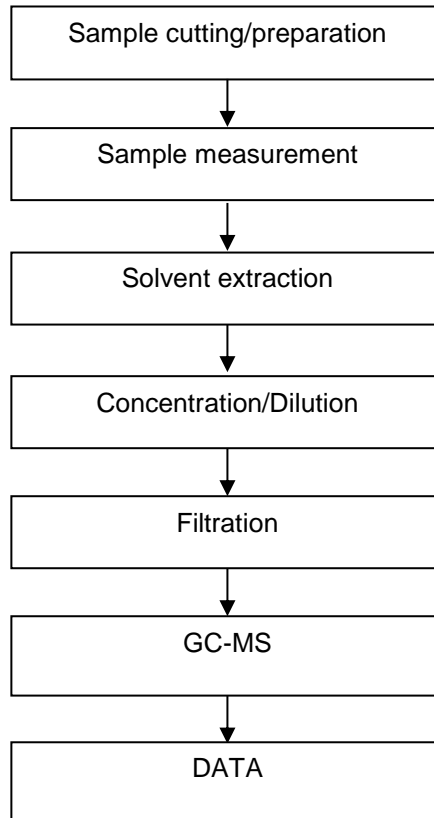
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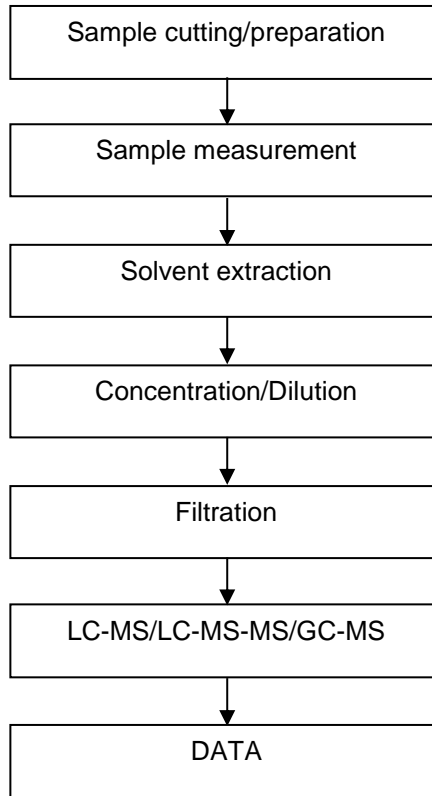
### Phthalates Testing Flow Chart



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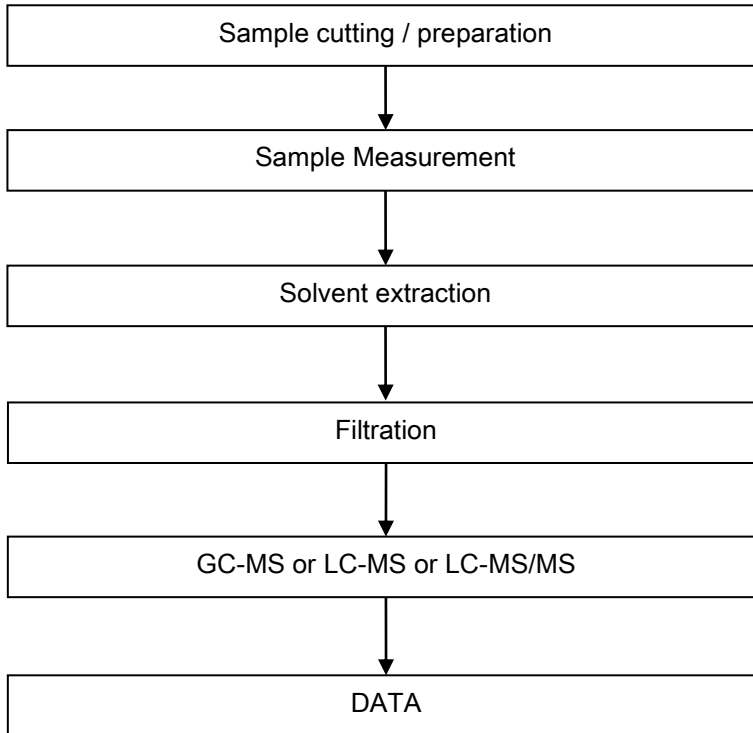
### PFASs/ PFOS/PFOA Testing Flow Chart



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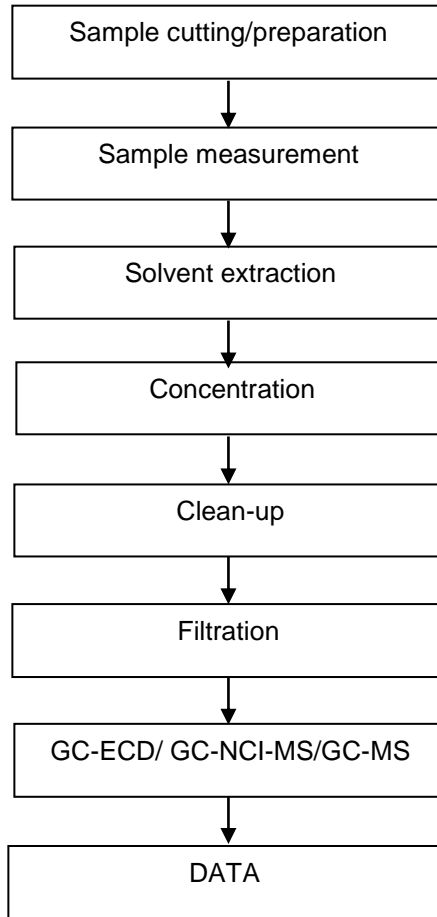
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### TBBP-A Testing Flow Chart

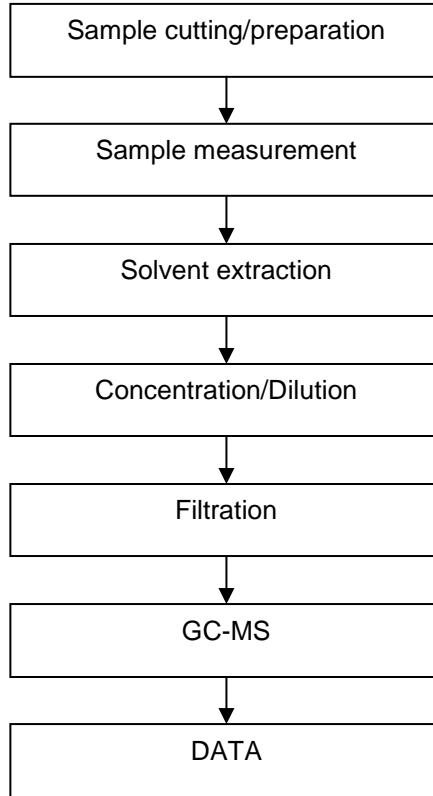


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## Chlorinated Paraffin Testing Flow Chart



### PAHs Testing Flow Chart

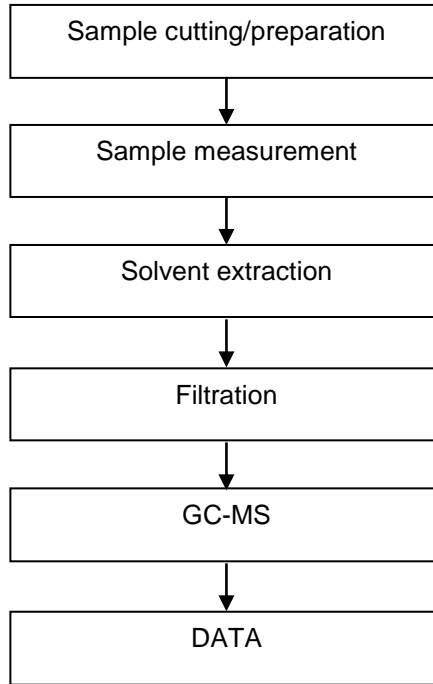


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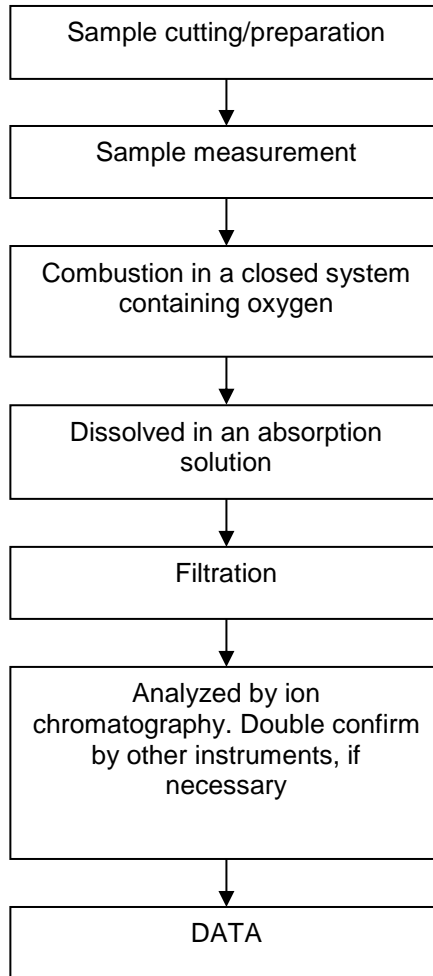
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### Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Testing Flow Chart



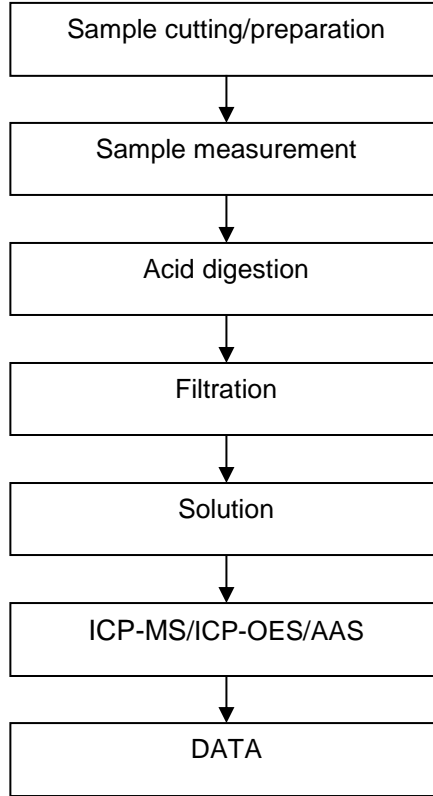
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**Halogen Testing Flow Chart**



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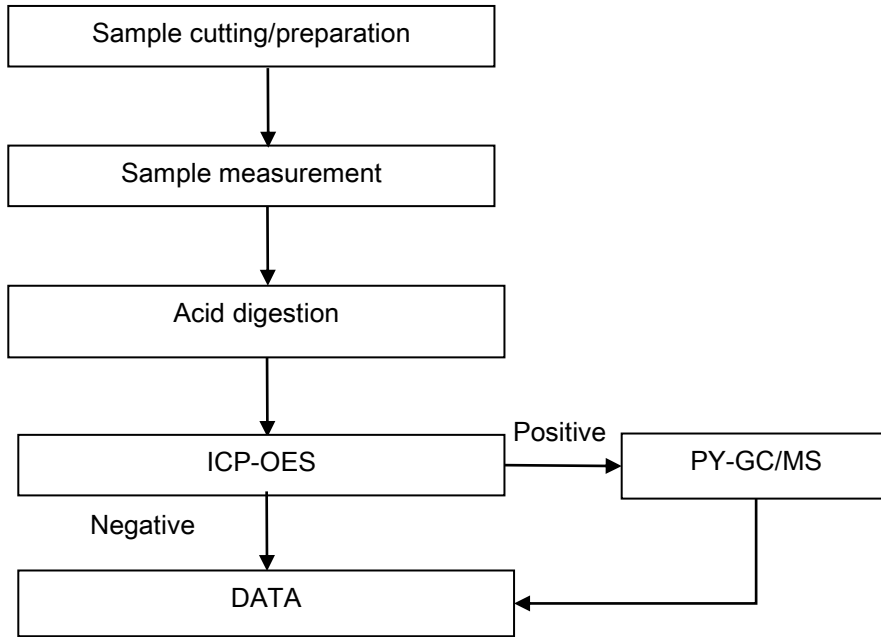
### Elements Testing Flow Chart



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### Red phosphorus Testing Flow Chart

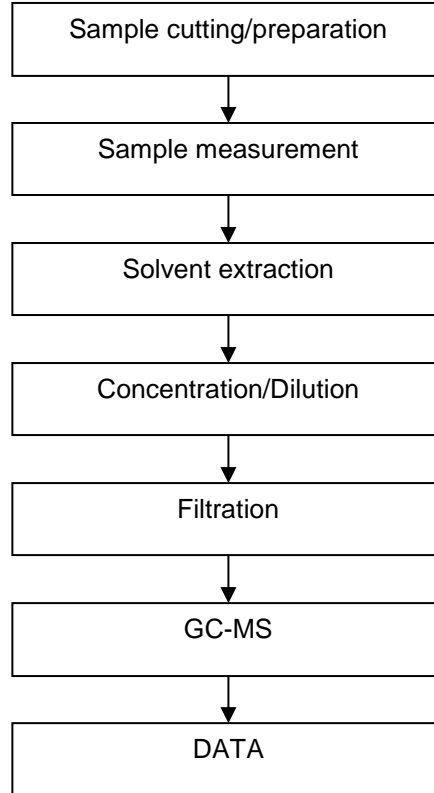


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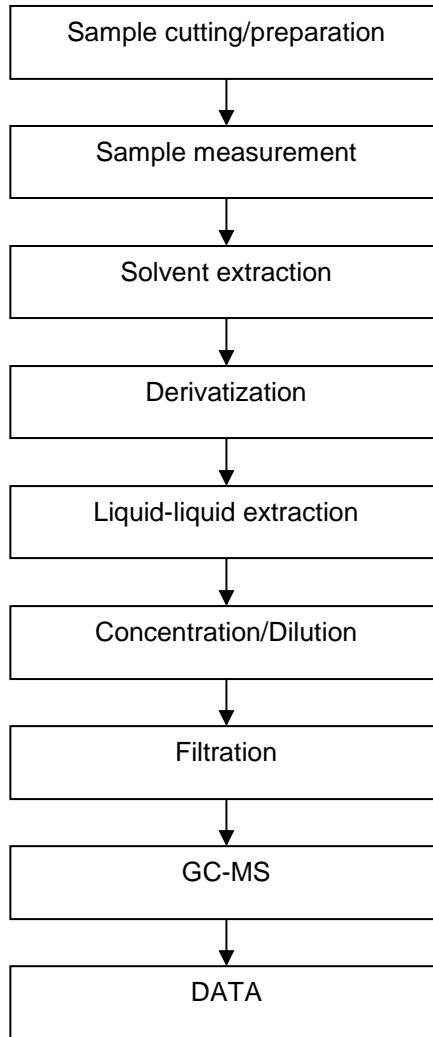
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### HBCDD Testing Flow Chart



### Organotin Testing Flow Chart



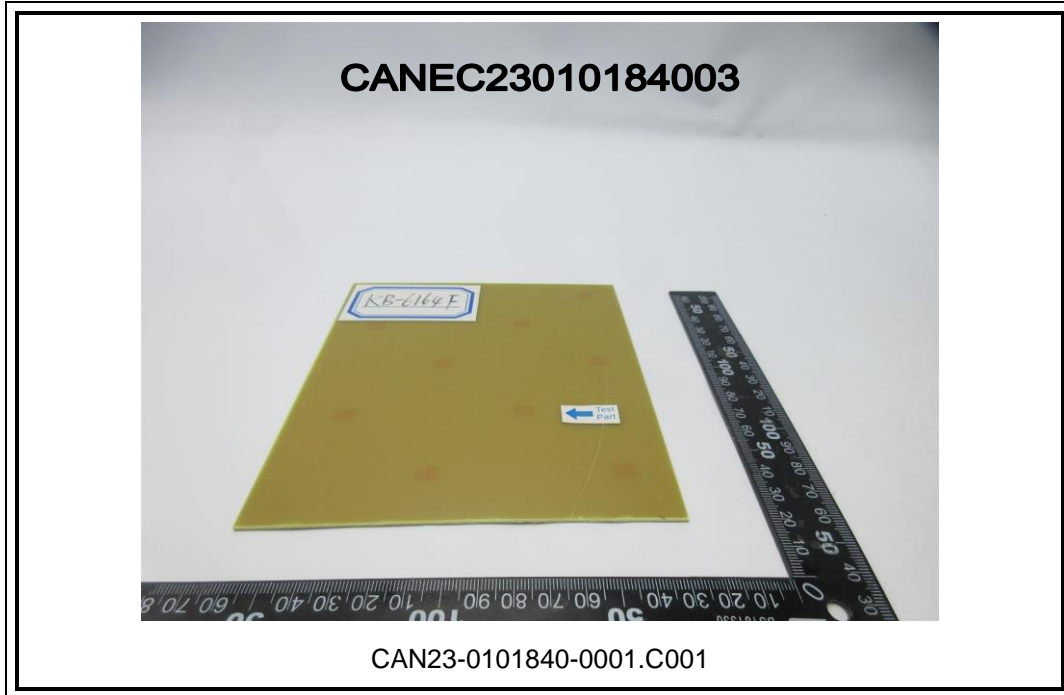
## Test Report

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Sample Photo:



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\*\*\* End of Report \*\*\*



SGS-CST Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Laboratory

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