

Test Report

No.: CANEC24024797705

Date: Nov 19, 2024

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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-1150

Model No.: KB-1150

Client Ref. Information: KB-150(DM/DMB),KB-150(TNI-TBI),KB-150(dubble color)

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

SGS Job No.: GZP24-034929

Sample Receiving Date: Nov 07, 2024

Testing Period: Nov 07, 2024 ~ Nov 18, 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 |
|---|-------------|
| 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 |
| Tetrabromobisphenol A (TBBP-A) | See Results |
| Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs) | See Results |
| Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h) | Pass |
| Halogen | See Results |
| Formaldehyde | See Results |
| Hexabromocyclododecane (HBCDD) | See Results |
| Phthalates | See Results |

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

Arsene Ye

Arsene Ye
Approved Signatory

scan to see the report



15206523



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Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--|
| SN1 | A2 | CAN24-0247977-0001.C002 | Copper clad brown laminate(only test part without green "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 (PBB), Polybrominated diphenyl ethers (PBDE), 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 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|---|-------|---------|-----|----|
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND |



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| Test Item(s) | Limit | Unit(s) | MDL | A2 |
|---|-------|---------|-----|----|
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl Phthalate (DBP) | 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.

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 |

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 | A2 |
|---|-----------------------|---------|-----|----|
| Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs) | 85535-85-9 and others | mg/kg | 50 | ND |

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

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 | A2 |
|---|------------|------------|---------|-----|----|
| Decabromodiphenyl ether (DecaBDE) ^{Δ1} | 1163-19-5 | Prohibited | mg/kg | 5 | ND |
| Phenol, isopropylated phosphate (3:1) (PIP 3:1) ^{Δ2} | 68937-41-7 | Prohibited | mg/kg | 5 | ND |
| 2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) ^{Δ3} | 732-26-3 | 3000 | mg/kg | 5 | ND |
| Hexachlorobutadiene (HCBd) | 87-68-3 | Prohibited | mg/kg | 5 | ND |



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| Test Item(s) | CAS No. | Limit | Unit(s) | MDL | A2 |
|------------------------------|----------|-------|---------|-----|-------------|
| Pentachlorothiophenol (PCTP) | 133-49-3 | 10000 | mg/kg | 5 | ND |
| Conclusion | | | | | Pass |

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) ^{Δ1}: The submitted sample is exempted if it is plastic for recycling from products or articles containing Deca-BDE.

(3) ^{Δ2}: 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) ^{Δ3}: 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 | A2 |
|--------------|---------|-----|----|
| Fluorine(F) | mg/kg | 20 | ND |
| Chlorine(Cl) | mg/kg | 50 | 74 |
| Bromine(Br) | mg/kg | 50 | ND |
| Iodine(I) | 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 | A2 |
|--------------|---------|-----|----|
| 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 | A2 |
|--|--|---------|-----|----|
| 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 |

Phthalates



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

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--|---------------------------|---------|-----|----|
| 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 |
| 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 |
| Dioctyl 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 |
| Trioctyl trimellitate(TOTM) | 3319-31-1 | mg/kg | 50 | ND |



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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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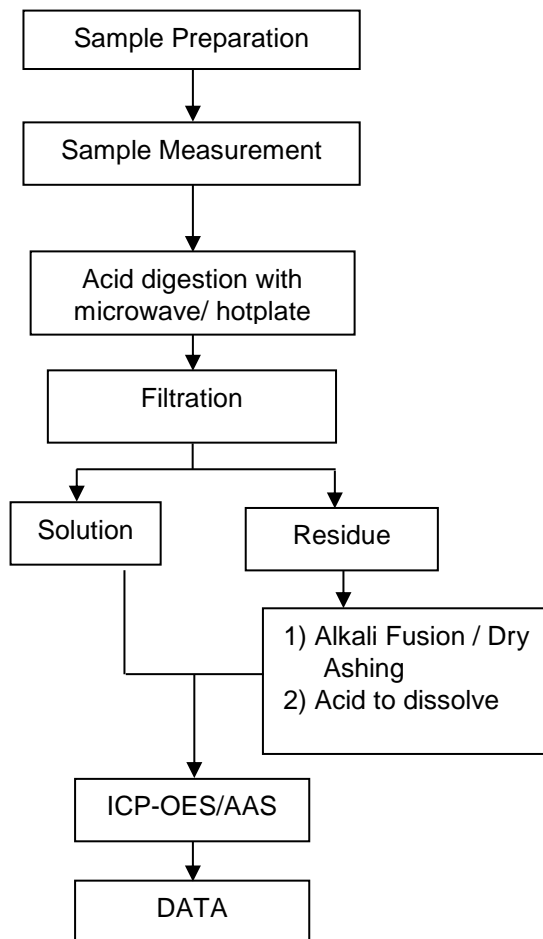
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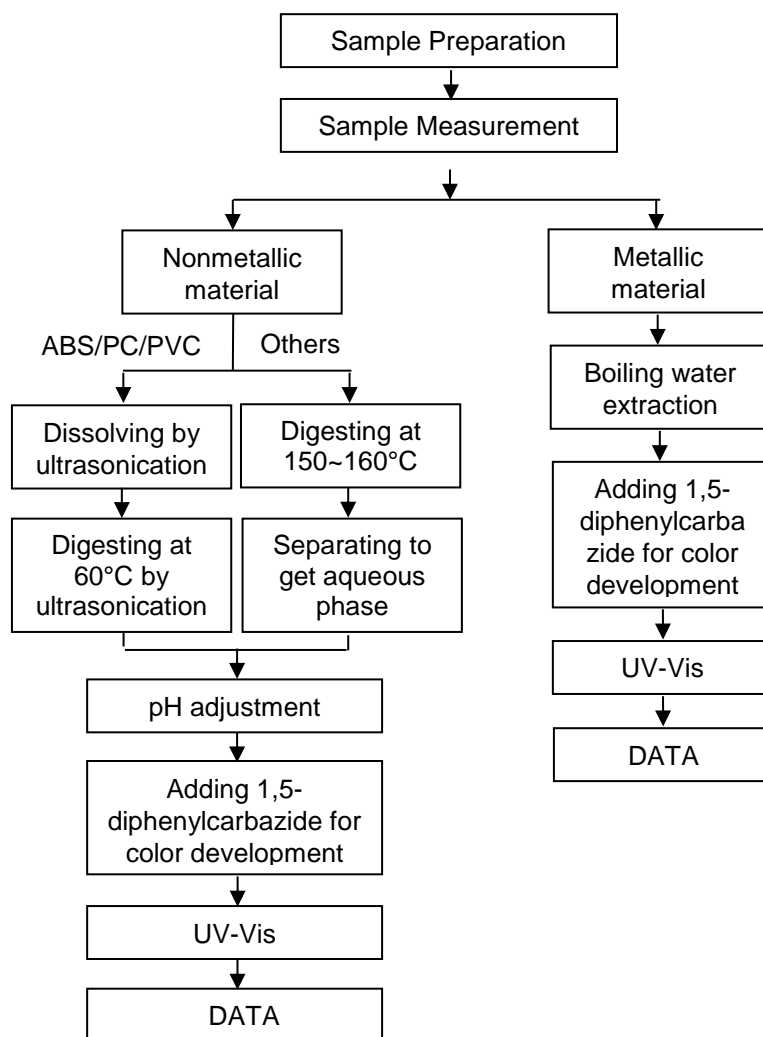
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Elements Testing Flow Chart

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



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBB/PBDE/Phthalates Testing Flow Chart



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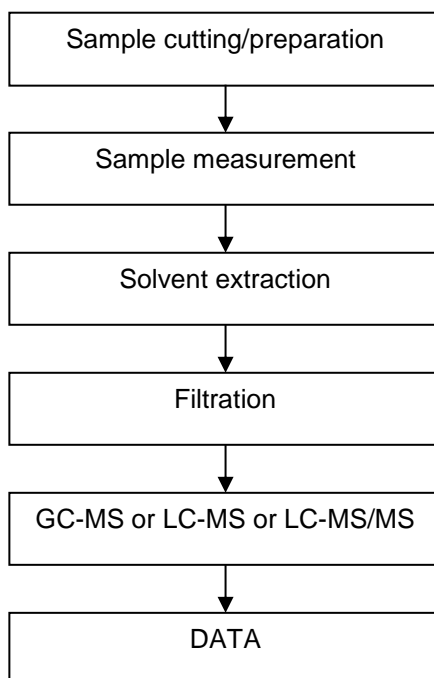
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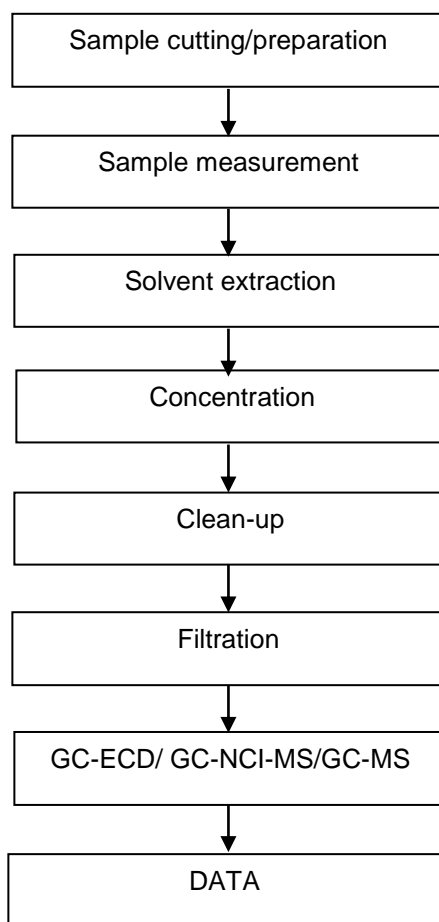
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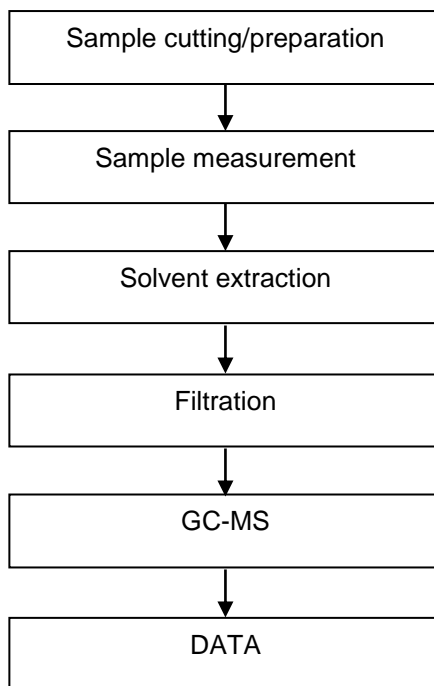
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Chlorinated Paraffin Testing Flow Chart

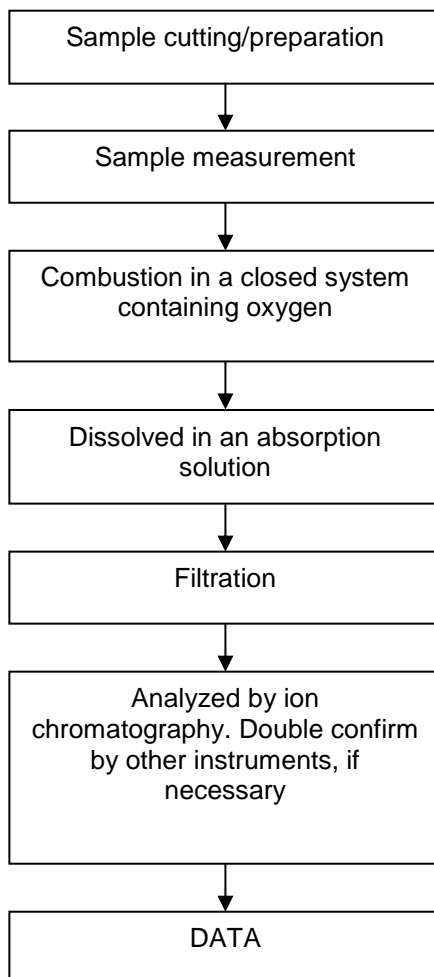


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Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Testing Flow Chart



Halogen Testing Flow Chart



Test Report

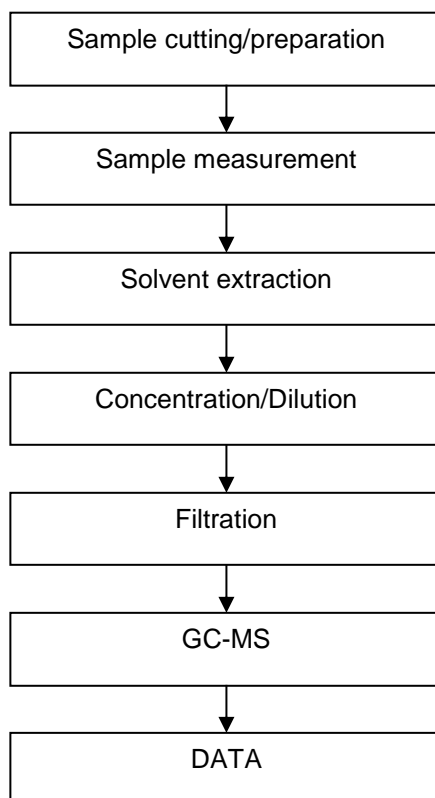
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HBCDD Testing Flow Chart



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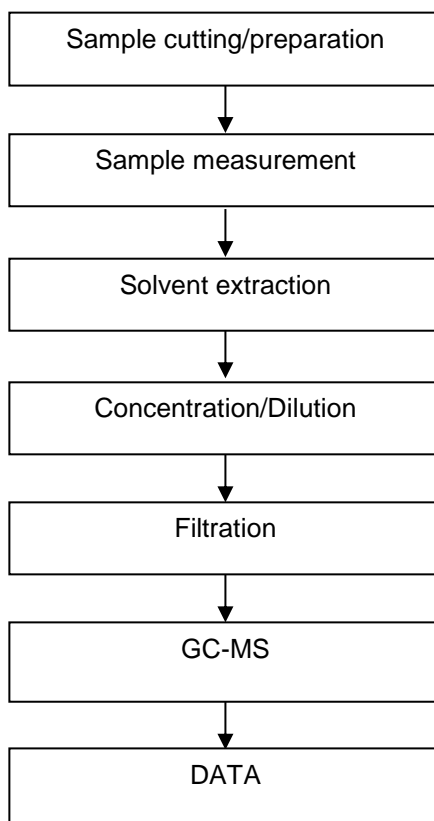
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Phthalates Testing Flow Chart



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