

Test Report

No.: CANEC25002029325

Date: Mar 12, 2025

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Client Name: KAIMEI ELECTRONIC CORP./KAIMEI ELECTRONIC(HONG KONG) LIMITED/JAMICON INTERNATIONAL LIMITED/SUZHOU KAIMEI ELECTRONIC CO., LTD./DONGGUAN JAMICON ELECTRONIC CO., LTD.

Client Address: 13F.,NO 81, SEC. 1, XINTAI 5TH RD.,XIZHI DIST.,NEW TAIPEI CITY 22101, TAIWAN/22/F., GUANGDONG FINANCE BUILDING, 88 CONNAUGT ROAD WEST, SHEUNG WAN, HONG KONG/22/F., GUANGDONG FINANCE BUILDING, 88 CONNAUGT ROAD WEST, SHEUNG WAN, HONG KONG/NO. 2, HANGQIAO ROAD. WANGTING TOWNSHIP, XIANGCHENG DISTRICT SUZHOU CITY.JIANGSU/NO.6A2, ROOM102/103 1ST GAOLI IND. ZONE,TANGXIA TOWN,DONGGUAN CITY, GUANGDONG PROVINCE,CHINA

Sample Name: SMD Type Conductive Polymer Aluminum Solid Capacitor material

Client Ref. Information: SMD Type Conductive Polymer Aluminum Solid Capacitor used for: VA,VB,VC,VD,VP,VQ,VS
Material:Anode foil、Cathode foil、Lead wire、Aluminium case、Separator paper、Polymer、Paint、Rubber seal、Isolator base、Adhesive tape

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

SGS Job No.: SZP25-003670

Sample Receiving Date: Feb 17, 2025

Testing Period: Feb 17, 2025 ~ Feb 25, 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 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

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

Allie Chen

Allie Chen
Approved Signatory

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EB44679F



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

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Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass
Asbestos	See Results
Hexabromocyclododecane (HBCDD)	See Results
PCBs, PCNs and PCTs	See Results
Phthalates	See Results
Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)	Pass
Halogen	See Results
Bisphenol A	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Element(s)	See Results
Red Phosphorus	See Results
Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0020293-0001.C001	Gray foil (said to be "Anode Foil")
SN2	A3	CAN25-0020293-0001.C003	Dark gray foil (said to be "Cathode Foil")
SN3	A4	CAN25-0020293-0001.C004	Multicolor plated metal (said to be "Lead wire")
SN4	A5	CAN25-0020293-0001.C005	Silvery metal pin (said to be "Lead wire")
SN5	A8	CAN25-0020293-0001.C008	Silvery metal shell (said to be "Aluminum case") #8
SN6	A11	CAN25-0020293-0001.C011	Beige paper sheet (said to be "Separator paper")
SN7	A14	CAN25-0020293-0001.C014	Dark brown liquid (said to be "Polymer")
SN8	A15	CAN25-0020293-0001.C015	Light yellow liquid (said to be "Polymer")
SN9	A21	CAN25-0020293-0001.C021	Magenta paste (said to be "paint")
SN10	A22	CAN25-0020293-0001.C022	Black plastic (said to be "Rubber seal")
SN11	A33	CAN25-0020293-0001.C033	Black plastic (said to be "Isolator base")
SN12	A38	CAN25-0020293-0001.C038	Brown transparent adhesive plastic (said to be "Plastic tape")

Remarks:

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



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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, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A11	A22	A33
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A11	A22	A33
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A38
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
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A38
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl 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.

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/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A21
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A21
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND	ND	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 SGS in house method, analysis was performed by GC-MS or LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
Tetrabromobisphenol A (TBBP-A)	79-94-7	mg/kg	5	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Tetrabromobisphenol A (TBBP-A)	79-94-7	mg/kg	5	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
Tetrabromobisphenol A (TBBP-A)	79-94-7	mg/kg	5	ND



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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	A11	A14	A15
Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs)	85535-85-9 and others	mg/kg	50	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs)	85535-85-9 and others	mg/kg	50	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs)	85535-85-9 and others	mg/kg	50	ND

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

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

Test Item(s)	Limit	Unit(s)	MDL	A1	A3	A4
Lead (Pb)	1000	mg/kg	2	ND	3	9
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A5	A8
Lead (Pb)	1000	mg/kg	2	ND	6
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND	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/cm². 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/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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.



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Technical Services CA, Guangzhou, China

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Asbestos

Test Method: With reference to NIOSH 9000:2015 / NIOSH 9002:1994, analysis was performed by XRD / PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative	Negative	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative	Negative	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative	Negative	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative	Negative	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative	Negative	Negative
Actinolite	77536-66-4	%(m/m)	0.1	Negative	Negative	Negative

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative	Negative	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative	Negative	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative	Negative	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative	Negative	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative	Negative	Negative
Actinolite	77536-66-4	%(m/m)	0.1	Negative	Negative	Negative

Test Item(s)	CAS No.	Unit(s)	MDL	A38
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative
Actinolite	77536-66-4	%(m/m)	0.1	Negative

Notes:

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

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	A11	A14	A15
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	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	134237-50-6 /134237-51-7 /134237-52-8	mg/kg	20	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
(α -HBCDD, β -HBCDD, γ -HBCDD)	/25637-99-4 /3194-55-6					

Test Item(s)	CAS No.	Unit(s)	MDL	A38
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

PCBs, PCNs and PCTs

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	A11	A14	A15
PCBs	-	mg/kg	-	ND	ND	ND
2,2',5'-Trichlorobiphenyl(PCB18)	37680-65-2	mg/kg	0.5	ND	ND	ND
2,4,4'-Trichlorobiphenyl(PCB28)	7012-37-5	mg/kg	0.5	ND	ND	ND
2,2',5,5'-Tetrachlorobiphenyl(PCB52)	35693-99-3	mg/kg	0.5	ND	ND	ND
2,2',4,5,5'-Pentachlorobiphenyl(PCB101)	37680-73-2	mg/kg	0.5	ND	ND	ND
2,3',4,4',5'-Pentachlorobiphenyl(PCB118)	31508-00-6	mg/kg	0.5	ND	ND	ND
2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138)	35065-28-2	mg/kg	0.5	ND	ND	ND
2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153)	35065-27-1	mg/kg	0.5	ND	ND	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180)	35065-29-3	mg/kg	0.5	ND	ND	ND
Sum of 6 PCBs(PCB28、PCB52、PCB101、PCB138、PCB153、PCB180)	-	mg/kg	-	ND	ND	ND
Aroclor 5432	63496-31-1	mg/kg	5	ND	ND	ND
Aroclor 5442	12642-23-8	mg/kg	5	ND	ND	ND
Aroclor 5460	11126-42-4	mg/kg	5	ND	ND	ND
Sum of PCTs	-	mg/kg	-	ND	ND	ND
Sum of PCBs	-	mg/kg	-	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
PCBs	-	mg/kg	-	ND	ND	ND
2,2',5-Trichlorobiphenyl(PCB18)	37680-65-2	mg/kg	0.5	ND	ND	ND
2,4,4'-Trichlorobiphenyl(PCB28)	7012-37-5	mg/kg	0.5	ND	ND	ND
2,2',5,5'-Tetrachlorobiphenyl(PCB52)	35693-99-3	mg/kg	0.5	ND	ND	ND
2,2',4,5,5'-Pentachlorobiphenyl(PCB101)	37680-73-2	mg/kg	0.5	ND	ND	ND
2,3',4,4',5-Pentachlorobiphenyl(PCB118)	31508-00-6	mg/kg	0.5	ND	ND	ND
2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138)	35065-28-2	mg/kg	0.5	ND	ND	ND
2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153)	35065-27-1	mg/kg	0.5	ND	ND	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl(PCB180)	35065-29-3	mg/kg	0.5	ND	ND	ND
Sum of 6 PCBs(PCB28、PCB52、PCB101、PCB138、PCB153、PCB180)	-	mg/kg	-	ND	ND	ND
Aroclor 5432	63496-31-1	mg/kg	5	ND	ND	ND
Aroclor 5442	12642-23-8	mg/kg	5	ND	ND	ND
Aroclor 5460	11126-42-4	mg/kg	5	ND	ND	ND
Sum of PCTs	-	mg/kg	-	ND	ND	ND
Sum of PCBs	-	mg/kg	-	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
PCBs	-	mg/kg	-	ND
2,2',5-Trichlorobiphenyl(PCB18)	37680-65-2	mg/kg	0.5	ND
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



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Test Item(s)	CAS No.	Unit(s)	MDL	A38
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
Sum of 6 PCBs(PCB28、PCB52、PCB101、PCB138、PCB153、PCB180)	-	mg/kg	-	ND
Aroclor 5432	63496-31-1	mg/kg	5	ND
Aroclor 5442	12642-23-8	mg/kg	5	ND
Aroclor 5460	11126-42-4	mg/kg	5	ND
Sum of PCTs	-	mg/kg	-	ND
Sum of PCBs	-	mg/kg	-	ND

Phthalates

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

Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
Dibutyl Phthalate(DBP)	84-74-2	%	0.003	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	%	0.003	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND	ND	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND	ND	ND
Dimethyl Phthalate(DMP)	131-11-3	%	0.003	ND	ND	ND
Diethyl Phthalate(DEP)	84-66-2	%	0.003	ND	ND	ND
Dipropyl Phthalate(DPrP)	131-16-8	%	0.003	ND	ND	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	ND	ND	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%	0.003	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND	ND	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	%	0.003	ND	ND	ND
Diphenyl Phthalate(DPhP)	84-62-8	%	0.003	ND	ND	ND
Dibenzyl Phthalate(DBzP)	523-31-9	%	0.003	ND	ND	ND
Dinonyl Phthalate(DNP)	84-76-4	%	0.003	ND	ND	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	%	0.010	ND	ND	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	%	0.003	ND	ND	ND
Diallyl Phthalate(DAP)	131-17-9	%	0.003	ND	ND	ND
Diisopentyl Phthalate(DIPP)	605-50-5	%	0.003	ND	ND	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	%	0.003	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.010	ND	ND	ND
Di-n-Heptyl Phthalate (DnHpP)	3648-21-3	%	0.003	ND	ND	ND
1,2-Benzenedicarboxylic Acid, Di-C7-11-Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	%	0.010	ND	ND	ND
Dihexylphthalate, branched and linear (DHxP)	68515-50-4	%	0.010	ND	ND	ND
Di(2-propylheptyl)Phthalate (DPHpP)	53306-54-0	%	0.010	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%	0.010	ND	ND	ND
Di-n-Octyl Phthalate (DNOP)	117-84-0	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%	0.010	ND	ND	ND
Dimethyl Phthalate (DMP)	131-11-3	%	0.003	ND	ND	ND
Diethyl Phthalate (DEP)	84-66-2	%	0.003	ND	ND	ND
Dipropyl Phthalate (DPrP)	131-16-8	%	0.003	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND	ND	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%	0.003	ND	ND	ND
Di-n-Hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%	0.003	ND	ND	ND
Diphenyl Phthalate (DPhP)	84-62-8	%	0.003	ND	ND	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%	0.003	ND	ND	ND
Dinonyl Phthalate (DNP)	84-76-4	%	0.003	ND	ND	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%	0.010	ND	ND	ND
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	%	0.003	ND	ND	ND
Diallyl Phthalate (DAP)	131-17-9	%	0.003	ND	ND	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%	0.003	ND	ND	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%	0.003	ND	ND	ND
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.010	ND	ND	ND
Di-n-Heptyl Phthalate (DnHpP)	3648-21-3	%	0.003	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	%	0.010	ND	ND	ND
Dihexylphthalate, branched and linear (DHxP)	68515-50-4	%	0.010	ND	ND	ND
Di(2-propylheptyl)Phthalate(DPH pP)	53306-54-0	%	0.010	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
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
Dimethyl Phthalate(DMP)	131-11-3	%	0.003	ND
Diethyl Phthalate(DEP)	84-66-2	%	0.003	ND
Dipropyl Phthalate(DPrP)	131-16-8	%	0.003	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%	0.003	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	%	0.003	ND
Diphenyl Phthalate(DPhP)	84-62-8	%	0.003	ND
Dibenzyl Phthalate(DBzP)	523-31-9	%	0.003	ND
Dinonyl Phthalate(DNP)	84-76-4	%	0.003	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	%	0.010	ND
Bis(2-methoxyethyl)phthalate(DME P)	117-82-8	%	0.003	ND
Diallyl Phthalate(DAP)	131-17-9	%	0.003	ND
Diisopentyl Phthalate(DIPP)	605-50-5	%	0.003	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	%	0.010	ND
Di-n-Heptyl Phthalate(DnHpP)	3648-21-3	%	0.003	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	%	0.010	ND
Dihexylphthalate, branched and linear (DHxP)	68515-50-4	%	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A38
Di(2-propylheptyl)Phthalate(DPH pP)	53306-54-0	%	0.010	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	A11	A14	A15
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1000	mg/kg	5	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP 3:1)	68937-41-7	1000	mg/kg	5	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	5	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	Prohibited	mg/kg	5	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	5	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A21	A22	A33
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1000	mg/kg	5	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP 3:1)	68937-41-7	1000	mg/kg	5	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	5	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	Prohibited	mg/kg	5	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	5	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A38
Decabromodiphenyl ether (DecaBDE)	1163-19-5	1000	mg/kg	5	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A38
Phenol, isopropylated phosphate (3:1) (PIP 3:1)	68937-41-7	1000	mg/kg	5	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	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
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) The rule for Decabromodiphenyl ether (DecaBDE) and Phenol, isopropylated phosphate (3:1) (PIP 3:1) is effective on January 21, 2025.

Halogen

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

Test Item(s)	Unit(s)	MDL	A11	A14	A15
Fluorine(F)	mg/kg	20	ND	ND	ND
Chlorine(Cl)	mg/kg	50	ND	ND	ND
Bromine(Br)	mg/kg	50	ND	ND	ND
Iodine(I)	mg/kg	50	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A21	A22	A33
Fluorine(F)	mg/kg	20	ND	69	1170
Chlorine(Cl)	mg/kg	50	76	ND	ND
Bromine(Br)	mg/kg	50	ND	ND	ND
Iodine(I)	mg/kg	50	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A38
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Bisphenol A

Test Method: SGS In-house method (GZTC CHEM-TOP-075-02, With reference to EPA 3550C:2007 & EPA 8321B:2007), analysis was performed by LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
Bisphenol A(BPA)	80-05-7	mg/kg	1.0	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Bisphenol A(BPA)	80-05-7	mg/kg	1.0	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
Bisphenol A(BPA)	80-05-7	mg/kg	1.0	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	A11	A14	A15
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND	ND	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DB A)	53-70-3	mg/kg	0.1	ND	ND	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND	ND	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND	ND	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND	ND	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND	ND	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND	ND	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND	ND	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND	ND	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND	ND	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND	ND	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND	ND	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND	ND	ND
Sum of 18 PAHs	-	mg/kg	-	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND	ND	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DB A)	53-70-3	mg/kg	0.1	ND	ND	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND	ND	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND	ND	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND	ND	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND	ND	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND	ND	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND	0.2	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND	ND	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND	ND	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND	0.2	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND	ND	ND
Sum of 18 PAHs	-	mg/kg	-	ND	0.2	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
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(DB A)	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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	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 Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 18 PAHs	-	mg/kg	-	ND

Notes:

Client requirements

Parameter	Category 1	Category 2	Category 3
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	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
Sum of 7 PAHs (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

Note:



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- ^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 classification of material categories is refer to AfPS GS 2019:01 PAK issued on 10 April, 2020. The Acenaphthylene (ANY), Acenaphthene (ANA) and Fluorene (FLU) are not in the scope of AfPS 2019:1 PAK which is additionally in scope of AfPS GS 2014:01 PAK and recommended in connection with §30 LFGB product safety requirements.

Element(s)

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

Test Item(s)	Unit(s)	MDL	A14	A15	A21
Arsenic(As)	mg/kg	10	ND	ND	ND
Beryllium(Be)	mg/kg	5	ND	ND	ND
Antimony(Sb)	mg/kg	10	ND	ND	ND
Antimony Trioxide(Sb ₂ O ₃) ◆	mg/kg	12	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A1	A3	A4
Beryllium(Be)	mg/kg	5	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A5	A8
Beryllium(Be)	mg/kg	5	ND	ND

Notes:

- ◆ Calculated concentration of Sb₂O₃ is based on the identified Sb.

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

Test Item(s)	Unit(s)	MDL	A11	A22	A33
Arsenic(As)	mg/kg	10	ND	ND	ND
Beryllium(Be)	mg/kg	5	ND	ND	ND
Antimony(Sb)	mg/kg	10	ND	ND	ND
Antimony Trioxide(Sb ₂ O ₃) ◆	mg/kg	12	ND	ND	ND

Test Item(s)	Unit(s)	MDL	A38
Arsenic(As)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND
Antimony(Sb)	mg/kg	10	ND



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Test Item(s)	Unit(s)	MDL	A38
Antimony Trioxide(Sb ₂ O ₃) ◆	mg/kg	12	ND

Notes:

◆ Calculated concentration of Sb₂O₃ is based on the identified Sb.

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	A11	A14	A15
Red Phosphorus	7723-14-0	mg/kg	500	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
Red Phosphorus	7723-14-0	mg/kg	500	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
Red Phosphorus	7723-14-0	mg/kg	500	ND

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives

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

Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
PFOS, its salts and related compounds						
Perfluorooctane sulfonic acid (PFOS), its salts [^]	1763-23-1	mg/kg	0.010	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	ND	ND
Perfluorooctane Sulfonamide (PFOSA), its salts [^]	754-91-6	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^]	2806-24-8	mg/kg	0.010	ND	ND	ND
N-Methylperfluoro-1-octanesulfonamidoacetic	2355-31-9	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A11	A14	A15
Acid (N-MeFOSAA), its salts^						
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND	ND	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND	ND	ND
PFOA, its salts						
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A21	A22	A33
PFOS, its salts and related compounds						
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND	ND	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND	ND	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	ND	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	ND	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND	ND	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	0.010	ND	ND	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	mg/kg	0.010	ND	ND	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND	ND	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND	ND	ND
PFOA, its salts						
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND	ND	ND

Test Item(s)	CAS No.	Unit(s)	MDL	A38
PFOS, its salts and related compounds				



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Test Item(s)	CAS No.	Unit(s)	MDL	A38
Perfluorooctane sulfonic acid (PFOS), its salts [^]	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), its salts [^]	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [^]	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [^]	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [^]	2991-50-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA), its salts [^]	335-67-1	mg/kg	0.010	ND

Notes:

1. [^]=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



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Guangzhou Branch, Technical Laboratory

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N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-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(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	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 heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-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-Triethyldecan-1-aminium heptadecafluorooctane-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 heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
Perfluorooctane sulfonic anhydride (FOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
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	



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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
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

Remark: Results & photo(s) of this report refer to test report CANEC25002029309.

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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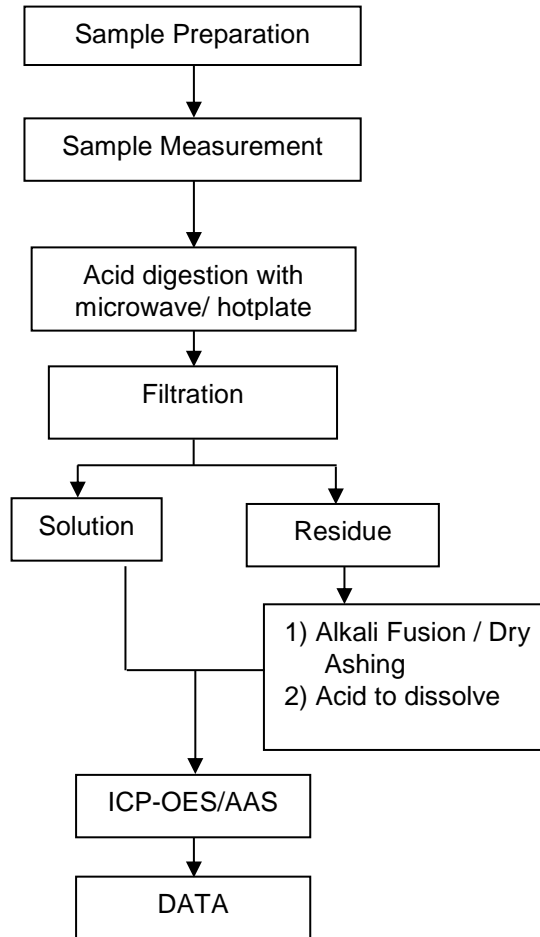
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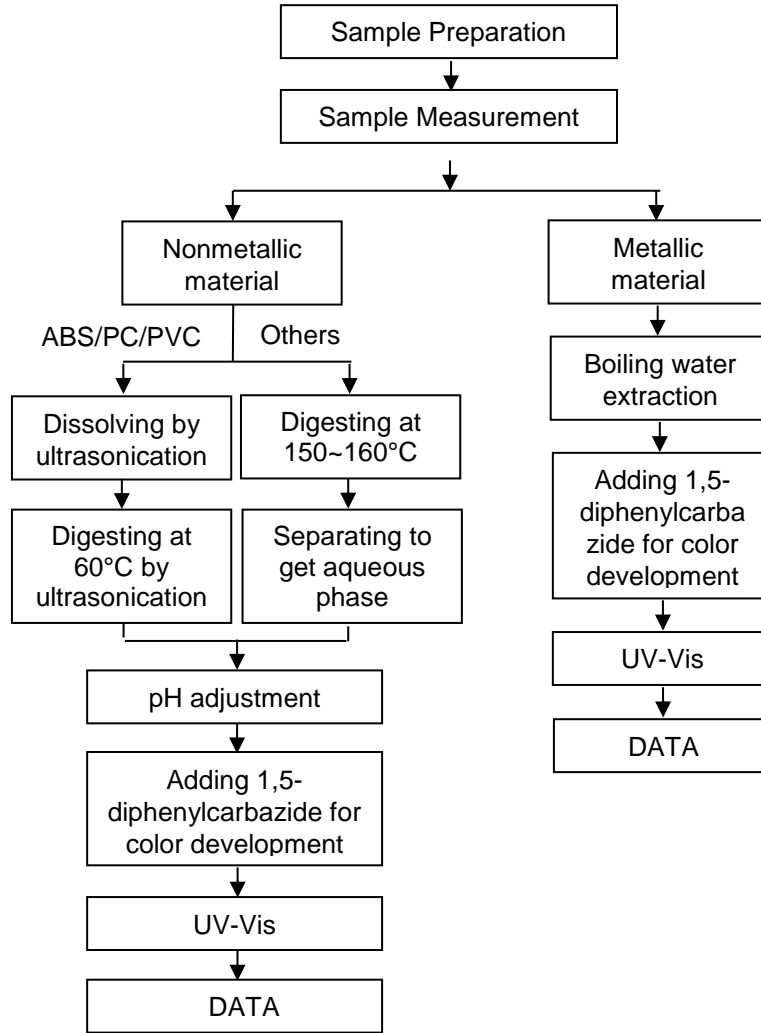
Elements Testing Flow Chart

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



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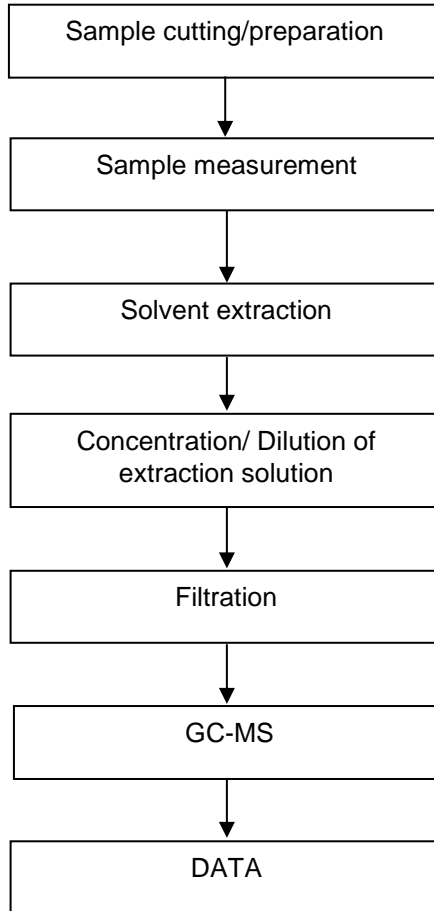
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



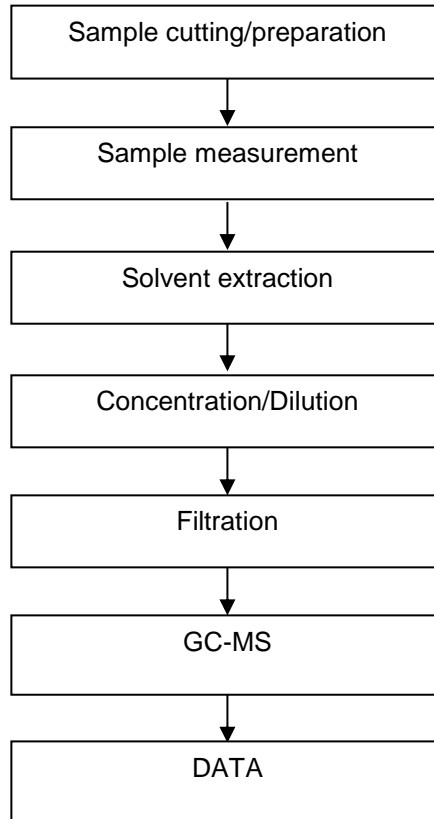
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PBB/PBDE Testing Flow Chart

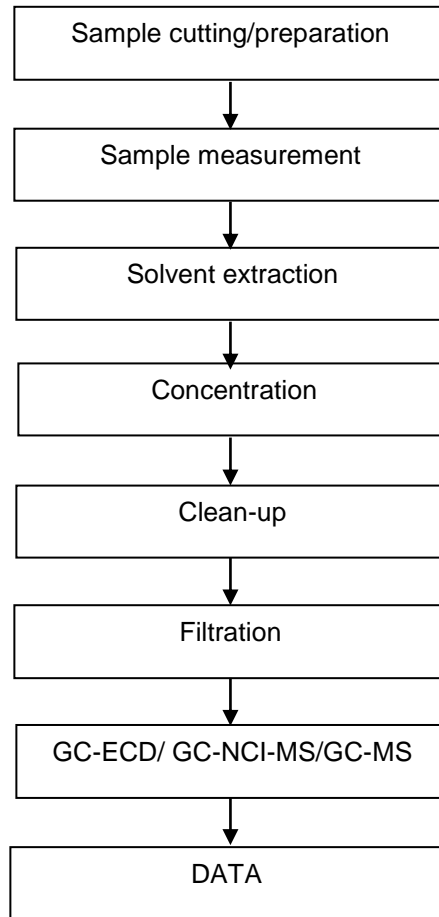


Phthalates Testing Flow Chart

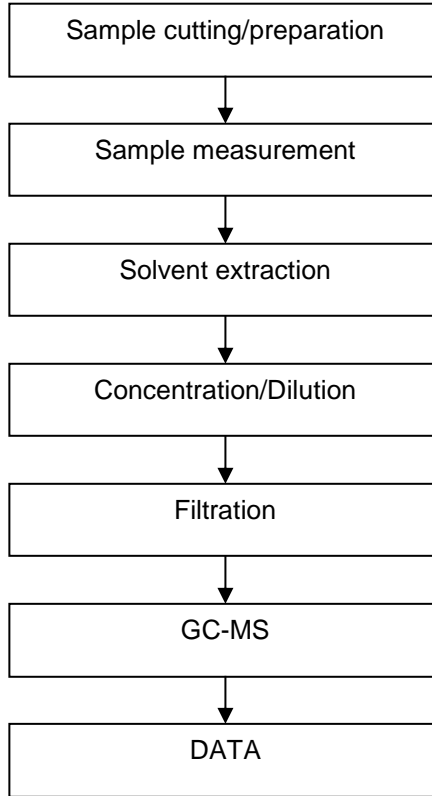


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Chlorinated Paraffin Testing Flow Chart



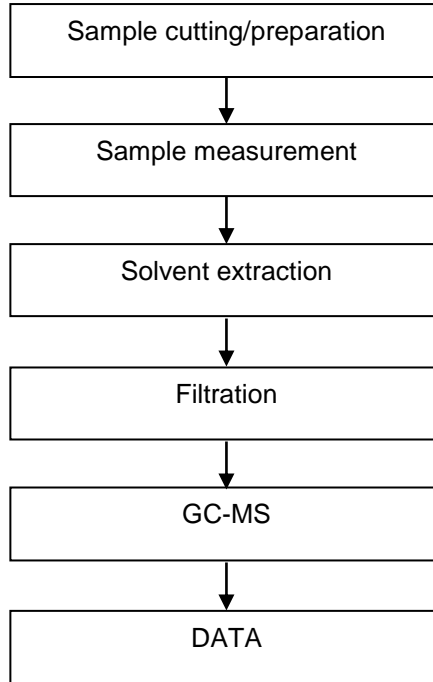
HBCDD Testing Flow Chart



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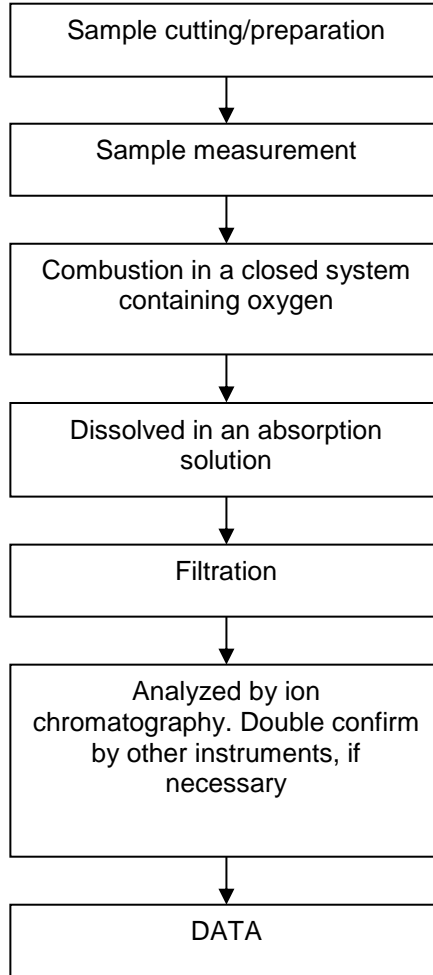
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Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Testing Flow Chart



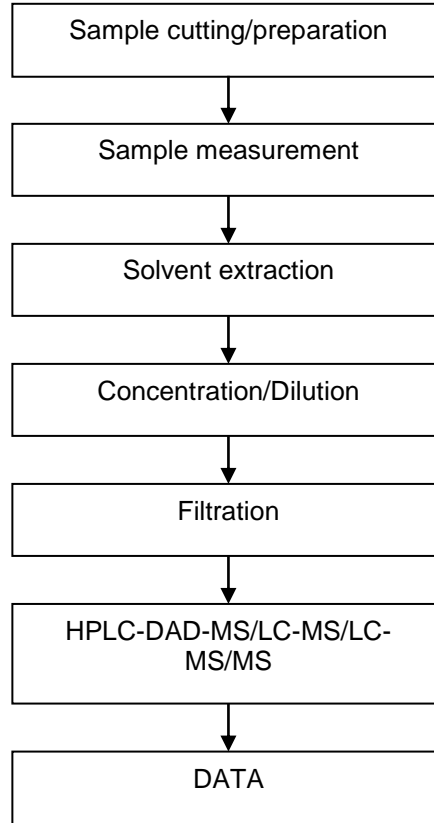
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Halogen Testing Flow Chart

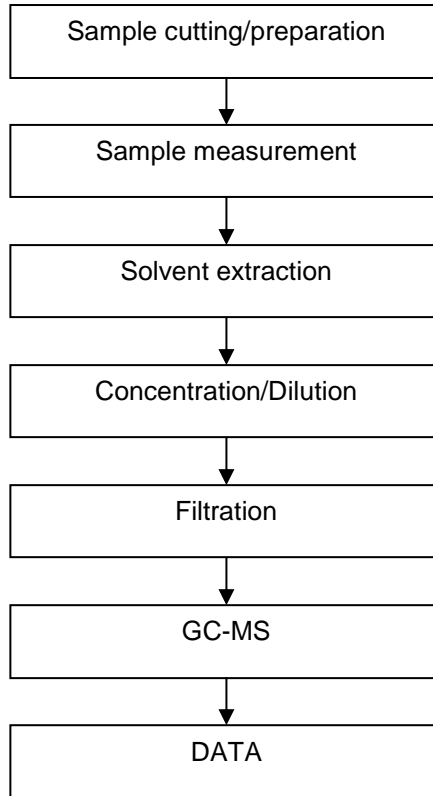


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Bisphenols Testing Flow Chart

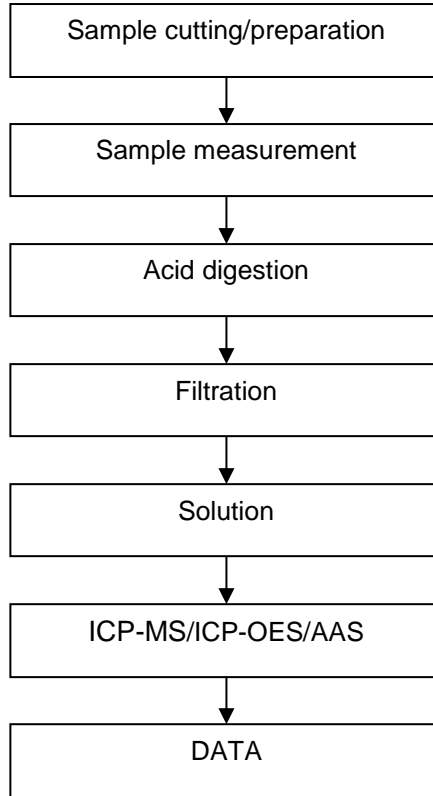


PAHs Testing Flow Chart



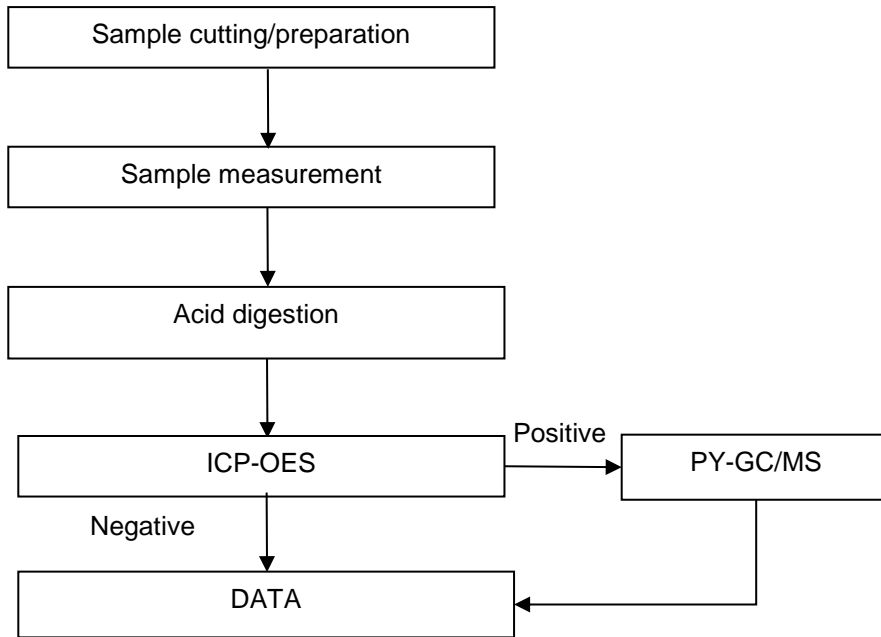
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Elements Testing Flow Chart



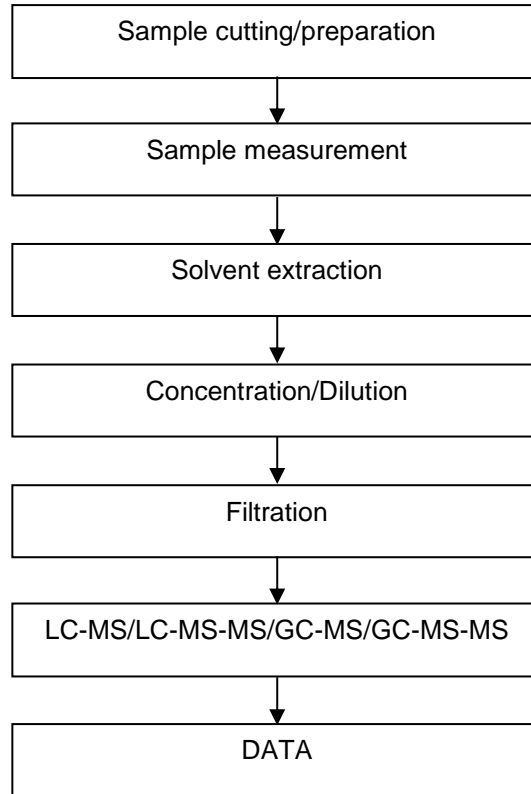
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Red phosphorus Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



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Test Report

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Date: Mar 12, 2025

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Sample Photo:



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