LEE & MAN PAPER MFG. CO.LTD

HE XI INDUSTRAIL PARK, HONGMEI, DONGGUAN, GUANGDONG, CHINA

This report is to supersede test report CANEC2103302501

The following sample(s) was/were submitted and identified on behalf of the clients as : CORRUGATING MEDIUM

SGS Job No. :	CP21-008700 - GZ
Date of Sample Received :	09 Mar 2021
Testing Period :	09 Mar 2021 - 16 Mar 2021
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

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

scan to see the report

CANEC2103302509

Jessie Li

Jessie Li
Approved Signatory

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-033025.001	Brown sheet

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

SS—00259-Eighteenth Edition

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Unit	MDL	*001*
Chromium (Cr)	mg/kg	8.0	10
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	10
Mercury (Hg)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND
Tetrabromodiphenyl ether	mg/kg	5	ND
Pentabromodiphenyl ether	mg/kg	5	ND

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn

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Test Item(s)	Unit	MDL	001
Hexabromodiphenyl ether	mg/kg	5	ND
Heptabromodiphenyl ether	mg/kg	5	ND
Octabromodiphenyl ether	mg/kg	5	ND
Nonabromodiphenyl ether	mg/kg	5	ND
Decabromodiphenyl ether	mg/kg	5	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND

Total Lead, Cadmium, Mercury and Hexavalent Chromium Content

Test Method : With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis

Test Item(s)	Unit	MDL	001
Cadmium (Cd)	mg/kg	5	ND
Hexavalent Chromium (CrVI)	mg/kg	8	ND
Lead (Pb)	mg/kg	5	10
Mercury (Hg)	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	mg/kg	-	10

Halogen

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

Test Item(s)	Unit	MDL	001
Fluorine (F)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	304
Bromine (Br)	mg/kg	50	ND

Lead and its compounds

Test Method : With reference to CPSC-CH-E1002-08.3, analysis was performed by ICP-OES.

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Item(s)	Unit	MDL	*001*
Lead (Pb)	mg/kg	20	ND

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to EPA 3052:1996), analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	*001*
Beryllium (Be)	mg/kg	5	ND
Beryllium oxide (BeO)	mg/kg	15	ND
Diarsenic trioxide (As_2O_3)	mg/kg	13	ND
Diarsenic pentaoxide (As_2O_5)	mg/kg	15	ND
Lead (Pb)	mg/kg	2	9

Notes :

(1) As_2O_3 : Calculated from Arsenic content
(2) As_2O_5 : Calculated from Arsenic content
(3) BeO: Calculate from Beryllium content

$CoCl_2$ (Cobalt dichloride)

Test Method : SGS in house method(GZTC CHEM-TOP-099-02), analysis was performed by IC and ICP-OES.

Test Item(s)	Unit	MDL	*001*
Cobalt Dichloride ($CoCl_2$)	mg/kg	100	ND

Notes :

(1)$CoCl_2$: Result is calculated based on the results of Cobalt and Chloride contents.

Ozone Depleting Substances (ODS)

Test Method : SGS In-house method (GZTC CHEM-TOP-201-01, With reference to US EPA Method 5021A:2014), analysis was performed by HS-GC-MS.

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Test Item(s)	CAS NO.	Unit	MDL	*001*
CFC				
CFC-11	75-69-4	mg/kg	0.1	ND
CFC-12	75-71-8	mg/kg	0.1	ND
CFC-13	75-72-9	mg/kg	0.1	ND
CFC-111	354-56-3	mg/kg	0.1	ND
CFC-112	76-12-0	mg/kg	0.1	ND
CFC-113	76-13-1	mg/kg	0.1	ND
CFC-114	76-14-2	mg/kg	0.1	ND
CFC-115	76-15-3	mg/kg	0.1	ND
CFC-211	422-78-6	mg/kg	0.1	ND
CFC-212	661-96-1	mg/kg	0.1	ND
CFC-213	1652-89-7	mg/kg	0.1	ND
CFC-214	677-68-9	mg/kg	0.1	ND
CFC-215	1599-41-3	mg/kg	0.1	ND
CFC-216	661-97-2	mg/kg	0.1	ND
CFC-217	422-86-6	mg/kg	0.1	ND
Halon				
Halon 1211	353-59-3	mg/kg	0.1	ND
Halon 1301	75-63-8	mg/kg	0.1	ND
Halon 2402	124-73-2	mg/kg	0.1	ND
CHC				
Carbon tetrachloride	56-23-5	mg/kg	0.1	ND
1,1,1-trichloroethane	71-55-6	mg/kg	0.1	ND
HCFC				
HCFC-21	75-43-4	mg/kg	0.1	ND
HCFC-22	75-45-6	mg/kg	0.1	ND
HCFC-31	593-70-4	mg/kg	0.1	ND
HCFC-121	354-14-3	mg/kg	0.1	ND
HCFC-122	354-21-2	mg/kg	0.1	ND
HCFC-123	306-83-2	mg/kg	0.1	ND
HCFC-123a	354-23-4	mg/kg	0.1	ND
HCFC-124	2837-89-0	mg/kg	0.1	ND
HCFC-124a	354-25-6	mg/kg	0.1	ND
HCFC-131	359-28-4	mg/kg	0.1	ND
HCFC-131a	811-95-0	mg/kg	0.1	ND
HCFC-132a	471-43-2	mg/kg	0.1	ND
HCFC-132b	1649-08-7	mg/kg	0.1	ND
HCFC-133a	75-88-7	mg/kg	0.1	ND
HCFC-141b	1717-00-6	mg/kg	0.1	ND
HCFC-142b	75-68-3	mg/kg	0.1	ND

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Test Item(s)	CAS NO.	Unit	MDL	001
HCFC-221	422-26-4	mg/kg	0.1	ND
HCFC-222	422-30-0	mg/kg	0.1	ND
HCFC-223	422-52-6	mg/kg	0.1	ND
HCFC-224	422-54-8	mg/kg	0.1	ND
HCFC-225ca	422-56-0	mg/kg	0.1	ND
HCFC-225cb	507-55-1	mg/kg	0.1	ND
HCFC-226	431-87-8	mg/kg	0.1	ND
HCFC-231	421-94-3	mg/kg	0.1	ND
HCFC-232	460-89-9	mg/kg	0.1	ND
HCFC-233	7125-84-0	mg/kg	0.1	ND
HCFC-234	425-94-5	mg/kg	0.1	ND
HCFC-235	460-92-4	mg/kg	0.1	ND
HCFC-241	666-27-3	mg/kg	0.1	ND
HCFC-242	460-63-9	mg/kg	0.1	ND
HCFC-243	338-75-0	mg/kg	0.1	ND
HCFC-244	679-85-6	mg/kg	0.1	ND
HCFC-251	421-41-0	mg/kg	0.1	ND
HCFC-252	819-00-1	mg/kg	0.1	ND
HCFC-253	460-35-5	mg/kg	0.1	ND
HCFC-261	7799-56-6	mg/kg	0.1	ND
HCFC-261	420-97-3	mg/kg	0.1	ND
HCFC-271	430-55-7	mg/kg	0.1	ND
HCFC-262	102738-79-4	mg/kg	0.1	ND
HCFC-262	420-99-5	mg/kg	0.1	ND
HFC				
HFC-23	75-46-7	mg/kg	0.1	ND
HFC-32	75-10-5	mg/kg	0.1	ND
HFC-41	593-53-3	mg/kg	0.1	ND
HFC-43-10mee	-	mg/kg	0.1	ND
HFC-125	354-33-6	mg/kg	0.1	ND
HFC-134	359-35-3	mg/kg	0.1	ND
HFC-134a	811-97-2	mg/kg	0.1	ND
HFC-152a	75-37-6	mg/kg	0.1	ND
HFC-143	430-66-0	mg/kg	0.1	ND
HFC-143a	420-46-2	mg/kg	0.1	ND
HFC-227ea	-	mg/kg	0.1	ND
HFC-236cb	-	mg/kg	0.1	ND
HFC-236ea	431-63-0	mg/kg	0.1	ND
HFC-236fa	690-39-1	mg/kg	0.1	ND
HFC-245ca	679-86-7	mg/kg	0.1	ND

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Item(s)	CAS NO.	Unit	MDL	001
HFC-245fa	-	mg/kg	0.1	ND
HFC-365mfc	-	mg/kg	0.1	ND
HFC-161	353-36-6	mg/kg	0.1	ND
HFC-152	-	mg/kg	0.1	ND
PFC				
Perfluoromethane	75-73-0	mg/kg	0.1	ND
Perfluoroethane	76-16-4	mg/kg	0.1	ND
Perfluoropropane	76-19-7	mg/kg	0.1	ND
Perfluorobutane	355-25-9	mg/kg	0.1	ND
Perfluoropentane	678-26-2	mg/kg	0.1	ND
Perfluorohexane	355-42-0	mg/kg	0.1	ND
Perfluorocyclobutane	115-25-3	mg/kg	0.1	ND
HBFC				
CHF_2Br	1511-62-2	mg/kg	0.1	ND
CH_2FBr	373-52-4	mg/kg	0.1	ND
C_2HFBr_4	-	mg/kg	0.1	ND
$C_2HF_2Br_3$	377-34-9	mg/kg	0.1	ND
$C_2HF_3Br_2$	354-04-1	mg/kg	0.1	ND
C_2HF_4Br	-	mg/kg	0.1	ND
$C_2H_2FBr_3$	-	mg/kg	0.1	ND
$C_2H_2F_2Br_2$	75-82-1	mg/kg	0.1	ND
$C_2H_2F_3Br$	421-06-7	mg/kg	0.1	ND
$C_2H_3FBr_2$	358-97-4	mg/kg	0.1	ND
$C_2H_3F_2Br$	359-07-9	mg/kg	0.1	ND
C_2H_4FBr	762-49-2	mg/kg	0.1	ND
C_3HFBr_6	-	mg/kg	0.1	ND
$C_3HF_2Br_5$	-	mg/kg	0.1	ND
$C_3HF_3Br_4$	-	mg/kg	0.1	ND
$C_3HF_4Br_3$	-	mg/kg	0.1	ND
$C_3HF_5Br_2$	431-78-7	mg/kg	0.1	ND
C_3HF_6Br	2252-78-0	mg/kg	0.1	ND
$C_3H_2FBr_5$	-	mg/kg	0.1	ND
$C_3H_2F_2Br_4$	-	mg/kg	0.1	ND
$C_3H_2F_3Br_3$	421-90-9	mg/kg	0.1	ND
$C_3H_2F_4Br_2$	460-86-6	mg/kg	0.1	ND
$C_3H_2F_5Br$	32778-10-2	mg/kg	0.1	ND
$C_3H_3FBr_4$	-	mg/kg	0.1	ND
$C_3H_3F_2Br_3$	-	mg/kg	0.1	ND
$C_3H_3F_3Br_2$	431-21-0	mg/kg	0.1	ND
$C_3H_3F_4Br$	679-84-5	mg/kg	0.1	ND

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Test Item(s)	CAS NO.	Unit	MDL	*001*
$C_3H_4FBr_3$	-	mg/kg	0.1	ND
$C_3H_4F_2Br_2$	460-25-3	mg/kg	0.1	ND
$C_3H_4F_3Br$	460-32-2	mg/kg	0.1	ND
$C_3H_5FBr_2$	453-00-9	mg/kg	0.1	ND
$C_3H_5F_2Br$	420-89-3	mg/kg	0.1	ND
C_3H_6FBr	-	mg/kg	0.1	ND
Others				
Sulphur Hexafluoride - SF_6	2551-62-4	mg/kg	0.1	ND

Formaldehyde

Test Method : With reference to ISO 17226-1:2018, analysis was performed by HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	*001*
Formaldehyde Content	50-00-0	mg/kg	16.0	ND

Perchlorate

Test Method : SGS In-house method (GZTC CHEM-TOP-224-01), analysis was performed by LC-MS/MS.

Test Item(s)	Unit	MDL	*001*
Perchlorate	µg/kg	5	ND

Carcinogenic, mutagenic and reprotoxic (CMR) substances - VOC

Test Method : With reference to ISO/TS 16189:2013, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	*001*
Dimethylformamide (DMFA)	68-12-2	mg/kg	50	ND
Dimethylamide acetate (DMAC)	127-19-5	mg/kg	50	ND
1-methyl-2-pyrrolidone (NMP)	872-50-4	mg/kg	50	ND

Asbestos

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

Test Item(s)	CAS NO.	Unit	MDL	*001*
Chrysotile	12001-29-5/13220 7-32-0	% (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 means the absence of asbestos, Positive means the presence of asbestos.

Carcinogenic, mutagenic and reprotoxic (CMR) substances - Benzene

Test Method : SGS In house method (GZTC CHEM-TOP-050-17), Analysis was performed by HS-GC-MS (120℃ 45min).

Test Item(s)	CAS NO.	Unit	MDL	*001*
Benzene	71-43-2	mg/kg	1	ND

Dimethyl fumarate(DMF)

Test Method : SGS In-house method (GZTC CHEM-TOP-095), analysis was performed by GC-MS.

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center Technical Laboratory.
198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Item(s)	Unit	MDL	*001*
Dimethyl fumarate(DMF)	mg/kg	0.1	ND

Polyvinyl chloride (PVC)

Test Method : SGS In-house method (SGS-CCL-TOP-066-01), analysis was performed by FTIR.

Test Item(s)	CAS NO.	Unit	MDL	*001*
Polyvinyl Chloride (PVC)	9002-86-2	-	-	Negative

Notes :

(1) Negative=Undetectable,Positive=Detectable

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)	Unit	MDL	*001*
Bisphenol-A	mg/kg	1.0	2.5

Azo Dyes

Test Method : With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	*001*	
				Method A	*Method B*
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND

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Test Item(s)	CAS NO.	Unit	MDL	*001*	
				Method A	*Method B*
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND

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Test Item(s)	CAS NO.	Unit	MDL	001	
				Method A	*Method B*
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine, TDA	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Notes :

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the

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presence of 4-AAB.

PFOA and its salts and PFOS and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes :

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
(2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH_4 (CAS No.: 29081-56-9), PFOS-$NH(OH)_2$ (CAS No.: 70225-14-8), PFOS-$N(C_2H_5)_4$ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

Hexabromocyclododecane (HBCDD)

Test Method : SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	mg/kg	10	ND

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

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Test Item(s)	Unit	MDL	001
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	mg/kg	50	ND

Organic-Tin compounds

Test Method : SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Trimethyltin(TMT) by weight of Tin	%(w/w)	0.01	ND
Tripropyltin (TPT) by weight of Tin	%(w/w)	0.01	ND
Dibutyl tin (DBT) by weight of Tin	%(w/w)	0.01	ND
Tributyl tin (TBT) by weight of Tin	%(w/w)	0.01	ND
Dioctyl tin (DOT) by weight of Tin	%(w/w)	0.01	ND
Triphenyl tin (TPhT) by weight of Tin	%(w/w)	0.01	ND
Tricyclohexyltin (TCyT) by weight of Tin	%(w/w)	0.01	ND
Trioctyltin (TOT) by weight of Tin	%(w/w)	0.01	ND
Σ of Tri substituted organotin compounds calculated as tin	%(w/w)	-	ND

Benzotriazole UV Absorbant

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	MDL	001
2-(3,5-Di-tert-butyl-2-hydroxyphenyl) benzotriazole (UV-320)	3846-71-7	mg/kg	5	ND

Phthalates Content

Test Method : With reference to IEC62321-8:2017, analyzed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl phthalate (DBP)	84-74-2	%(w/w)	0.005	ND
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	0.005	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	001
Diisobutyl Phthalates (DIBP)	84-69-5	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	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	MDL	001
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	0.2
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	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
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	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
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	0.2
Sum of 15 PAHs	-	mg/kg	-	0.2

Flame retardant(s)

Test Method : SGS In-house method (GZTC CHEM-TOP-149-04, With reference to EPA 3550C:2007), analysis was performed by GC-MS and HPLC-DAD/MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Tris(1,3-dichloro-2-propyl) Phosphate(TDCPP)	13674-87-8	mg/kg	5	ND
Tris(1-chloro-2-propyl) Phosphate (TCPP)	13674-84-5	mg/kg	5	ND
Tris(2-chloroethyl) Phosphate(TCEP)	115-96-8	mg/kg	5	ND

Carcinogenic, mutagenic and reprotoxic (CMR) substances - Phthalates

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Test Method : With reference to ISO 14389: 2014, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	ND
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	50	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	50	ND
Diiso butyl Phthalate (DIBP)	84-69-5	mg/kg	50	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	mg/kg	50	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
Dipentyl Phthalates (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Di-n-hexyl phthalate(DnHP)	84-75-3	mg/kg	50	ND
Sum of all phthalates		mg/kg	-	ND

Carcinogenic, mutagenic and reprotoxic (CMR) substances - Forbidden dyes

Test Method : With reference to DIN 54231: 2005, analysis was performed HPLC-DAD-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	mg/kg	15	ND
C.I. Basic Red 9 (Structure No: C.I. 42 500)	569-61-9	mg/kg	15	ND
Basic Violet 3 (CI No: 42 555)	548-62-9	mg/kg	15	ND

Carcinogenic, mutagenic and reprotoxic (CMR) substances - Chlorinated Organic Carriers

Test Method : With reference to EN 17137:2018, Analysis was performed by GC-MS with confirmation.

Test Item(s)	CAS NO.	Unit	MDL	001
α,α,α,4-Tetrachlorotoluene	5216-25-1	mg/kg	0.1	ND
α,α,α-Trichlorotoluene	98-07-7	mg/kg	0.1	ND
α-chlorotoluene	100-44-7	mg/kg	0.5	ND

Carcinogenic, mutagenic and reprotoxic (CMR) substances - Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

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Test Item(s)	CAS NO.	Unit	MDL	001
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	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
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	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	MDL	001
2,4,4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

Polychlorinated Naphthalenes (PCNs)

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	MDL	001
1-Chlorinated Naphthalene	90-13-1	mg/kg	5	ND
2-Chlorinated Naphthalene	91-58-7	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	1825-31-6	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	1825-30-5	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	2050-69-3	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	2050-74-0	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	50402-52-3	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	20020-02-4	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	67922-26-3	mg/kg	5	ND
Octa-chlorinated Naphthalene	2234-13-1	mg/kg	5	ND

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Polychlorinated Terphenyls (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	MDL	001
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

This report updates Test Results.

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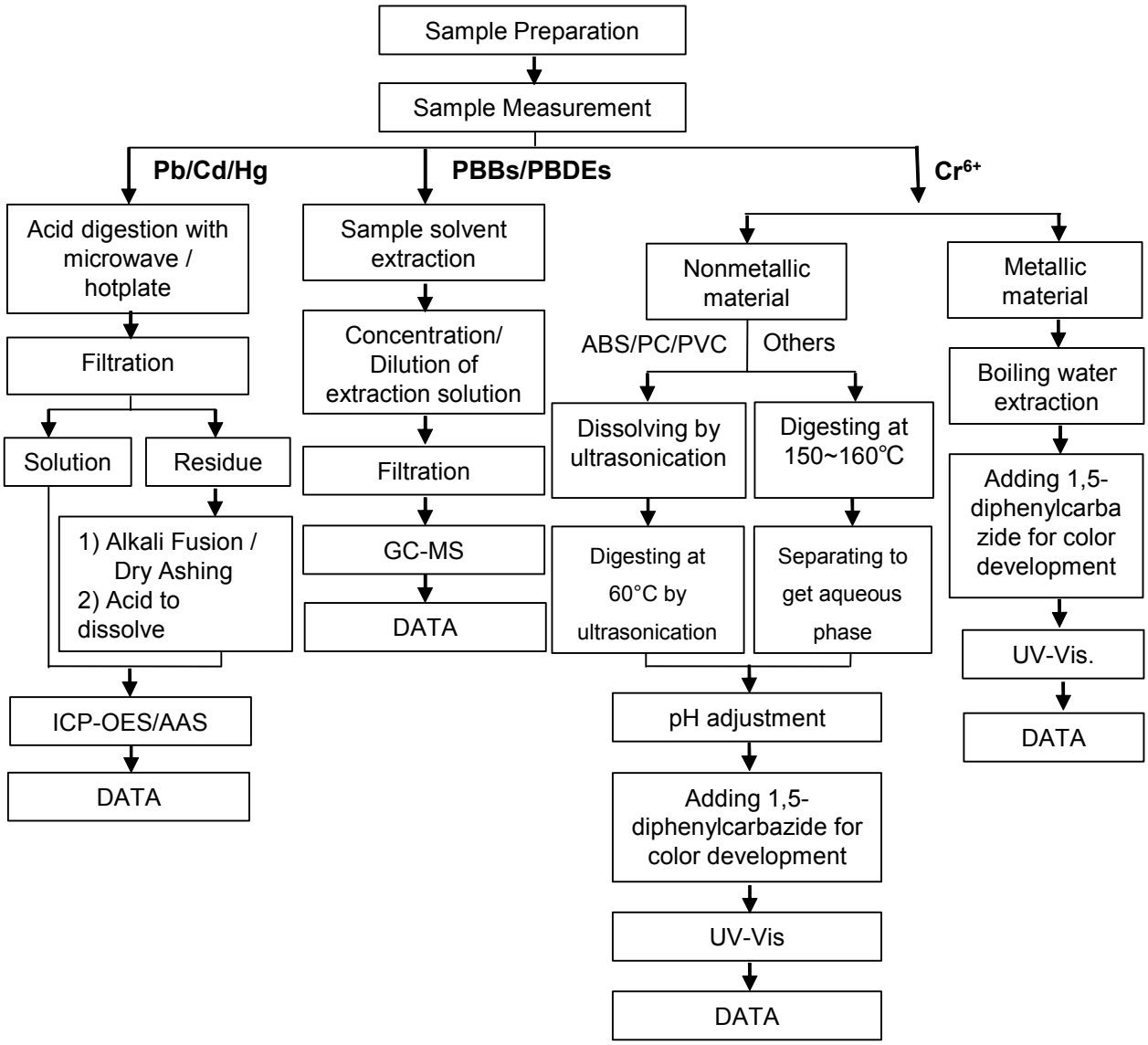
Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).



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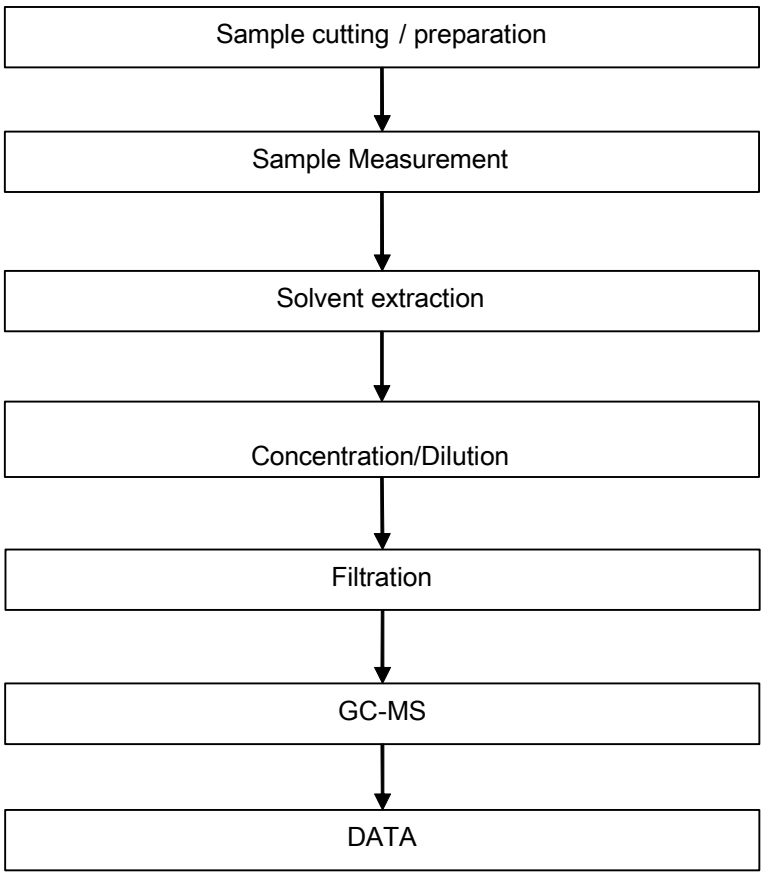
Phthalates Testing Flow Chart



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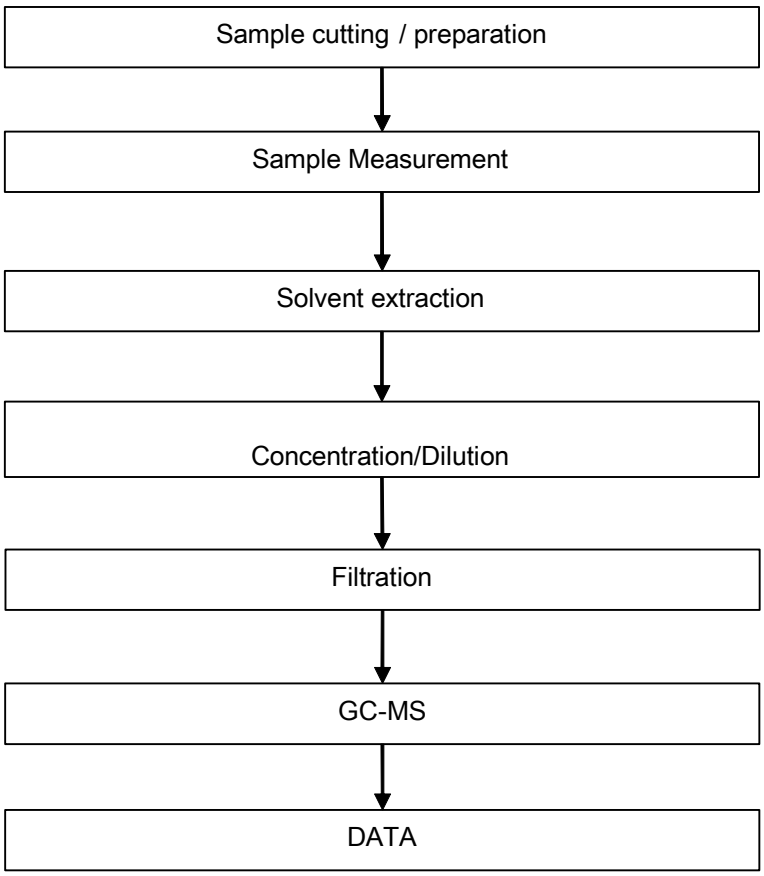
Phthalates Testing Flow Chart



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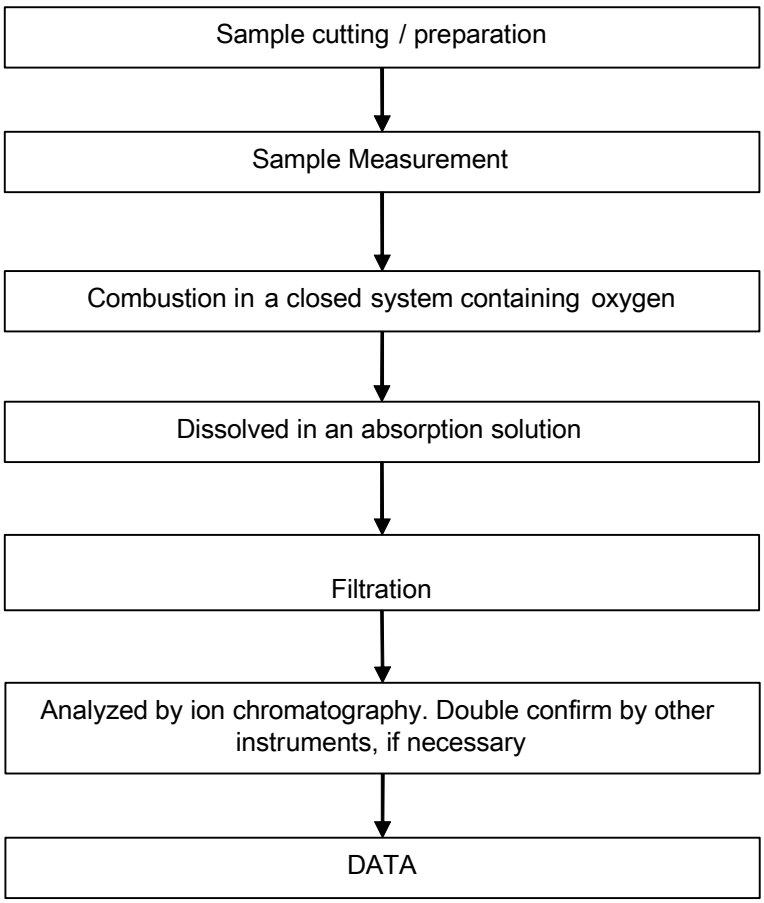
Halogen Testing Flow Chart



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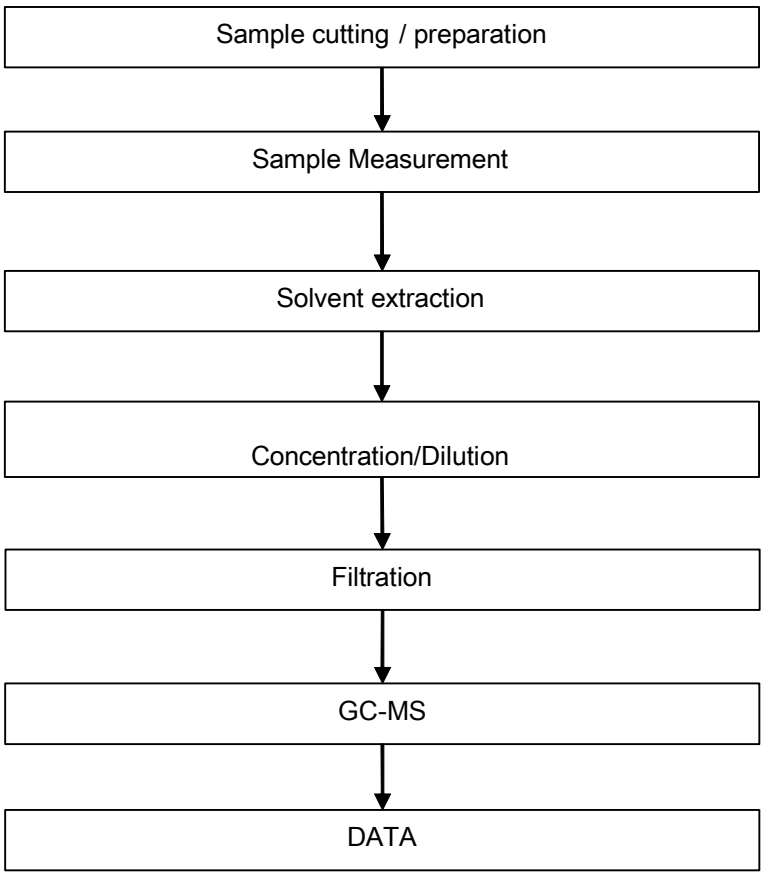
HBCDD Testing Flow Chart



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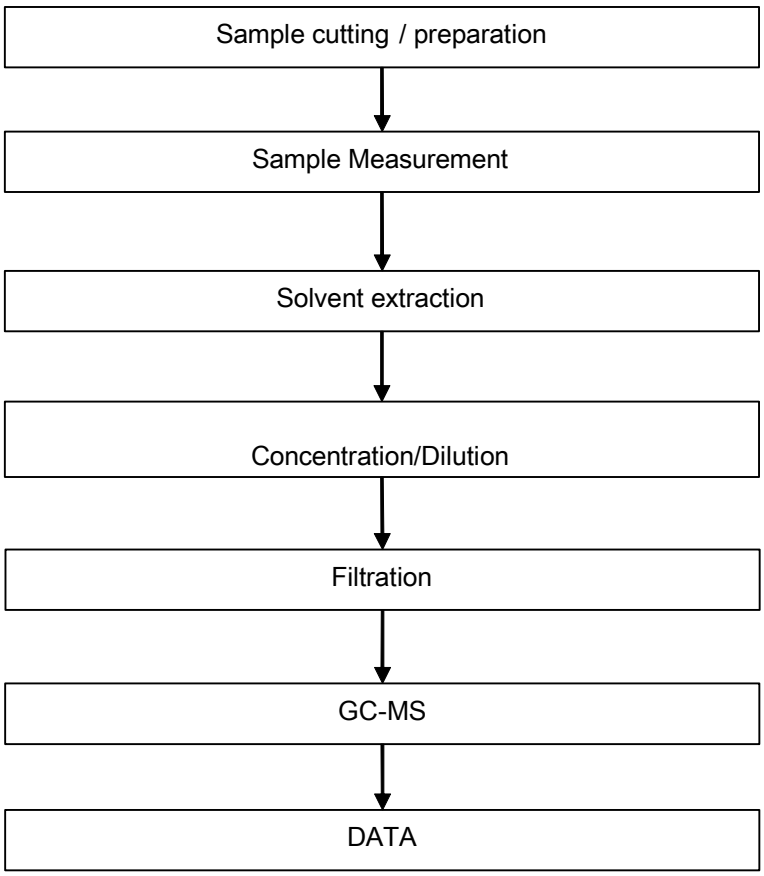
PAHs Testing Flow Chart



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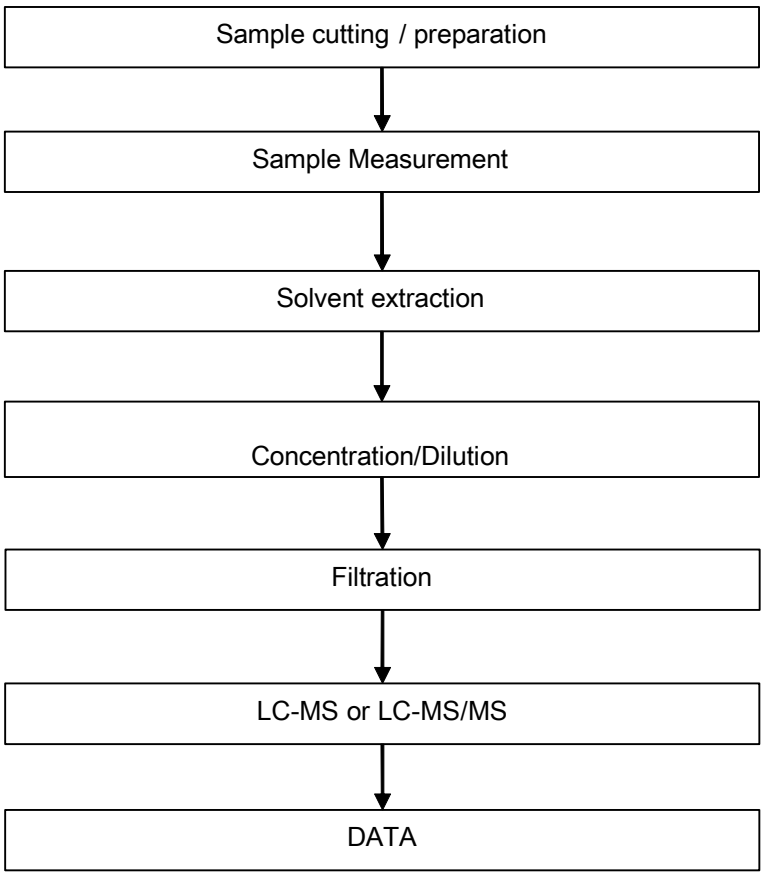
PFOA / PFOS Testing Flow Chart



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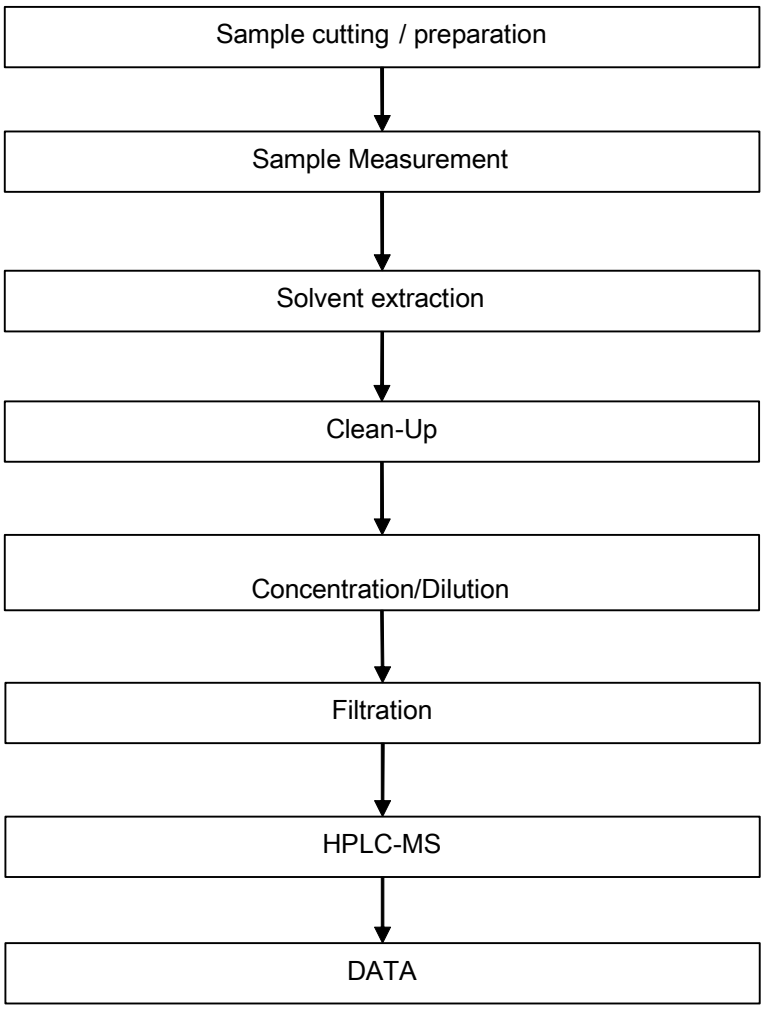
BPA Testing Flow Chart



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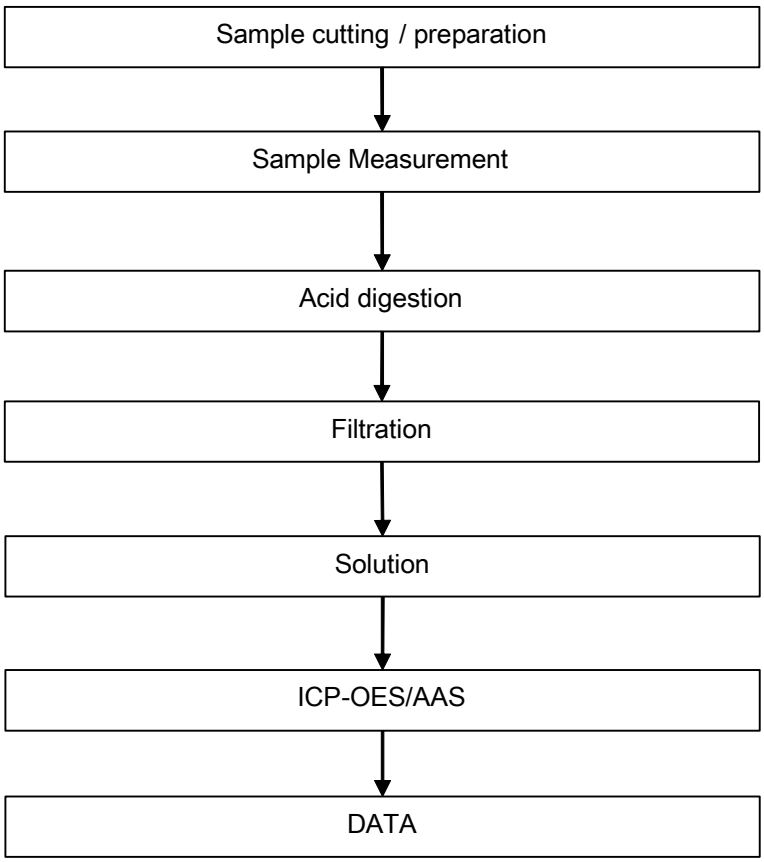
Elementary Testing Flow Chart



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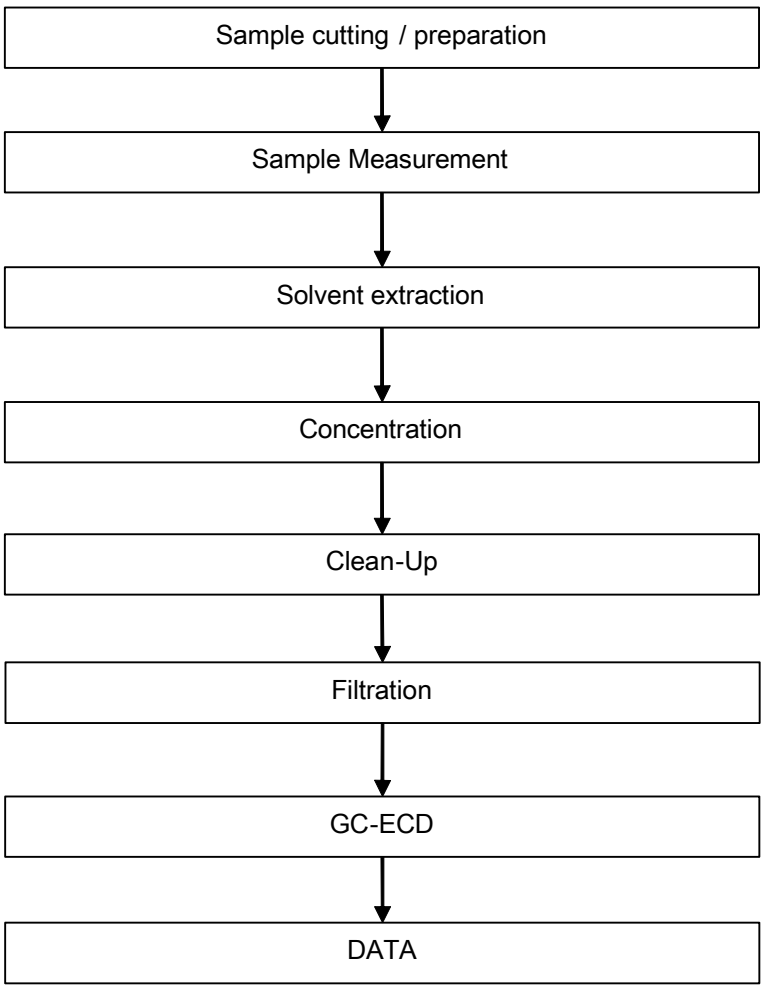
SCCP/MCCP/LCCP Testing Flow Chart



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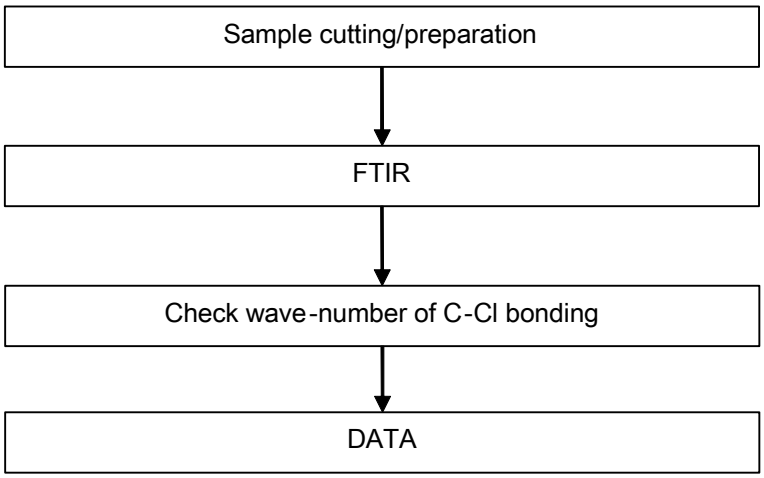
PVC Testing Flow Chart



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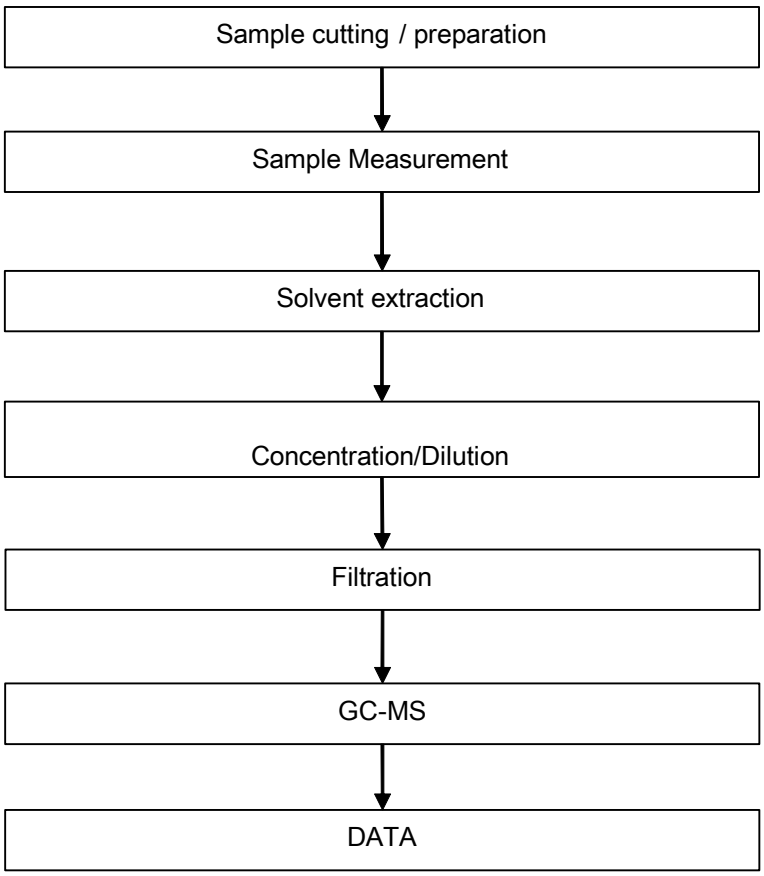
Dimethyl Fumarate Testing Flow Chart



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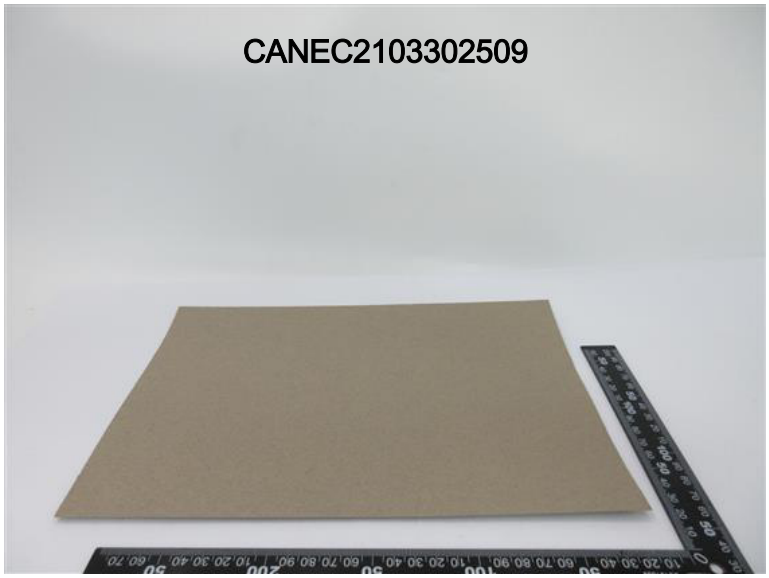
198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Sample photo:



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SGS authenticate the photo on original report only

*** End of Report ***

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198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
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