

Test Report No. CANEC2103725203 Date: 16 Apr 2021 Page 1 of 18

KINGBOARD LAMINATES HOLDINGS LIMITED

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

The following sample(s) was/were submitted and identified on behalf of the clients as: KB-5252

SGS Job No. : CP21-006209 - GZ

Model No. : KB-5252

Client Ref. Info. : KB-5150G

Date of Sample Received : 15 Mar 2021

Testing Period: 15 Mar 2021 - 13 Apr 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).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN21-037252.001 Copper clad yellow laminate(only test the part without red "KB"

> > printing)

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	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	1,000	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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
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)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586
- (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.

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)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Arsenic (As)	mg/kg	10	ND
Antimony (Sb)	mg/kg	10	ND

Halogen

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	1002
Chlorine (CI)	mg/kg	50	244
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND



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Tetrabromobisphenol A (TBBP-A)

SGS In-house method (GZTC CHEM-TOP-065, With reference to EPA 3540C:1996 & EPA Test Method:

8270E:2017), analysis was performed by LC-MS/MS.

Test Item(s) Unit **MDL** 001 Tetrabromobisphenol A (TBBP-A) 5 ND mg/kg

Red Phosphor

SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS/

ICP-OES.

Test Item(s) Unit 001 MDL Red phosphorus ND mg/kg 500

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
84-74-2	%(w/w)	0.003	ND
85-68-7	%(w/w)	0.003	ND
117-81-7	%(w/w)	0.003	ND
28553-12-0 /	%(w/w)	0.010	ND
68515-48-0			
117-84-0	%(w/w)	0.003	ND
26761-40-0 /	%(w/w)	0.010	ND
68515-49-1			
131-11-3	%(w/w)	0.003	ND
84-66-2	%(w/w)	0.003	ND
131-16-8	%(w/w)	0.003	ND
84-69-5	%(w/w)	0.003	ND
131-18-0	%(w/w)	0.003	ND
84-75-3	%(w/w)	0.003	ND
84-61-7	%(w/w)	0.003	ND
84-62-8	%(w/w)	0.003	ND
	84-74-2 85-68-7 117-81-7 28553-12-0 / 68515-48-0 117-84-0 26761-40-0 / 68515-49-1 131-11-3 84-66-2 131-16-8 84-69-5 131-18-0 84-75-3 84-61-7	84-74-2 %(w/w) 85-68-7 %(w/w) 117-81-7 %(w/w) 28553-12-0 / %(w/w) 68515-48-0 117-84-0 %(w/w) 26761-40-0 / %(w/w) 68515-49-1 131-11-3 %(w/w) 84-66-2 %(w/w) 131-16-8 %(w/w) 84-69-5 %(w/w) 131-18-0 %(w/w) 84-75-3 %(w/w) 84-61-7 %(w/w)	84-74-2 %(w/w) 0.003 85-68-7 %(w/w) 0.003 117-81-7 %(w/w) 0.003 28553-12-0 / %(w/w) 0.010 68515-48-0 117-84-0 %(w/w) 0.003 26761-40-0 / %(w/w) 0.010 68515-49-1 131-11-3 %(w/w) 0.003 84-66-2 %(w/w) 0.003 131-16-8 %(w/w) 0.003 84-69-5 %(w/w) 0.003 131-18-0 %(w/w) 0.003 84-75-3 %(w/w) 0.003 84-61-7 %(w/w) 0.003



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Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibenzyl Phthalate (DBzP)		523-31-9	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)		84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)		27554-26-3	%(w/w)	0.010	ND
Bis(2-methoxyethyl) Phthalate (DME	EP)	117-82-8	%(w/w)	0.003	ND
Diallyl Phthalate (DAP)		131-17-9	%(w/w)	0.003	ND
n-decyl, n-octyl Phthalate (nDnOP)		119-07-3	%(w/w)	0.003	ND
Di-n-decyl Phthalate (DnDP)		84-77-5	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)		605-50-5	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6 esters, C7-rich (DIHP)	-8-branched alkyl	71888-89-6	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, di-C7 linear alkyl esters (DHNUP)	-11-branched and	68515-42-4	%(w/w)	0.010	ND
Di(2-ethyhexyl)adipate (DEHA)		103-23-1	%(w/w)	0.003	ND
Bis(4-methyl-2-pentyl) Phthalate (Bl	MPP)	146-50-9	%(w/w)	0.003	ND
Bis(2-ethoxyethyl) Phthalate (DEEP)	605-54-9	%(w/w)	0.003	ND
Bis(2-n-butoxyethyl) Phthalate (DBE	EP)	117-83-9	%(w/w)	0.003	ND
Diundecyl Phthalate (DUDP)		3648-20-2	%(w/w)	0.003	ND
Diisononyl adipate (DINA)		33703-08-1	%(w/w)	0.010	ND
Ditridecyl Phthalate (DTDP)		119-06-2	%(w/w)	0.003	ND
Trioctyl trimellitate (TOTM)		3319-31-1	%(w/w)	0.003	ND
Dioctyl Terephthalate (DOTP)		6422-86-2	%(w/w)	0.003	ND
Di-n-heptyl Phthalate (DnHpP)		3648-21-3	%(w/w)	0.003	ND
Acetyltributylcitrate (Citroflex, ATBC)	77-90-7	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, diper and linear (DPP)	tyl ester, branched	84777-06-0	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, dihex and linear(DHP)	yl ester branched	68515-50-4	%(w/w)	0.010	ND
Di(2-propylheptyl) Phthalate(DPHpF	?)	53306-54-0	%(w/w)	0.010	ND

Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than



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0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

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Please refer to Regulation (EU) 2018/2005 to get more detail information

- (2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

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.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD) and all major	25637-99-4	mg/kg	10	ND
diastereoisomers identified (α-HBCDD, β-HBCDD,	3194-55-6			
γ-HBCDD)	134237-50-6			
	134237-51-7			
	134237-52-8			

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (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.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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)	24448-09-7	mg/kg	0.010	ND
-ethanol(MeFOSE)				
2-(N-ethylperfluoro-1-octanesulfonamido)	1691-99-2	mg/kg	0.010	ND
-ethanol(EtFOSE)				
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

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(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-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3),

PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

AfPS GS 2019:01 PAK - 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.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	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
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,	-	mg/kg	-	ND
Fluoranthene)				
Sum of 15 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): PAHs requirements

	Category 1	Cate	egory 2	Catego	ry 3
Parameter (mg/kg)	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	category 1, o long-term co than 30s) or repetitive co	ontact (more short-term ntact ^o with he intended or	Materials covered category 1 nor but 2, coming into such contact (up to 3) during the intentioneseeable use	oy category hort-term 0s) with skin ded or
	or -for the use by children ^{a,b} up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 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)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	<1		< 2	< 10)
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

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.

Formaldehyde

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



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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.



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Test Item(s) CAS NO. Unit **MDL** 001 Formaldehyde 50-00-0 16 ND mg/kg



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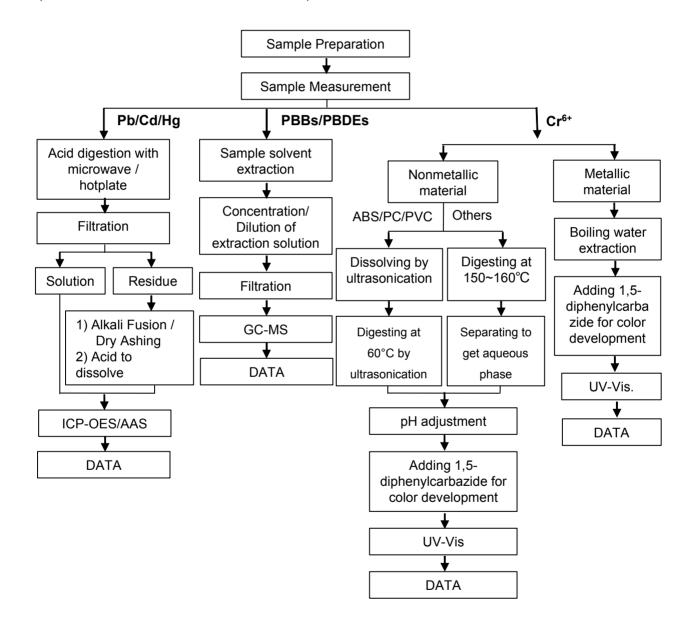


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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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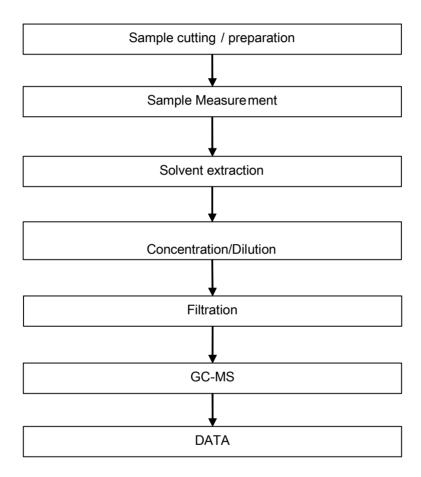


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ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu





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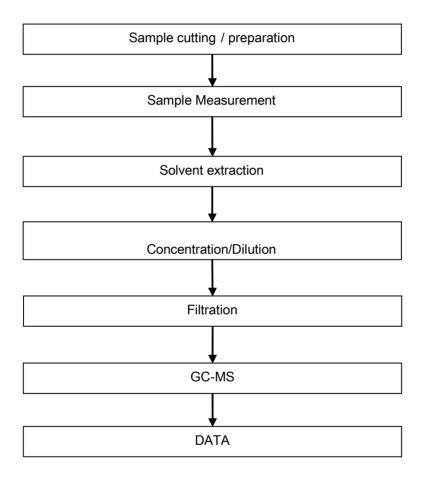
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ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu





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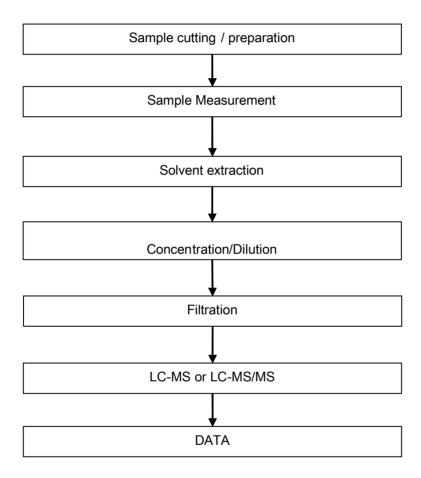
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Olivia Li
- 2) Name of the person in charge of testing: Qiong Liu





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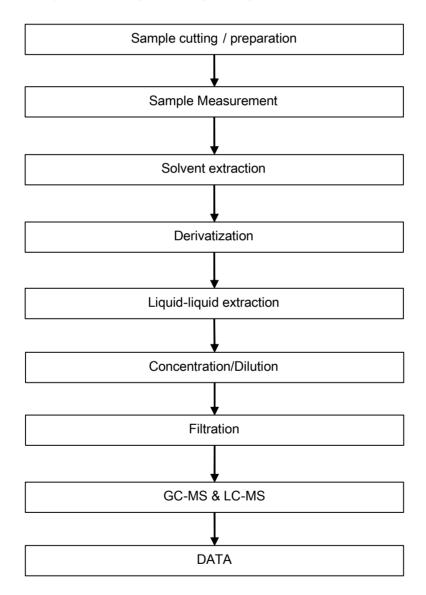
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ATTACHMENTS

TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Olivia Li
- 2) Name of the person in charge of testing: Qiong Liu





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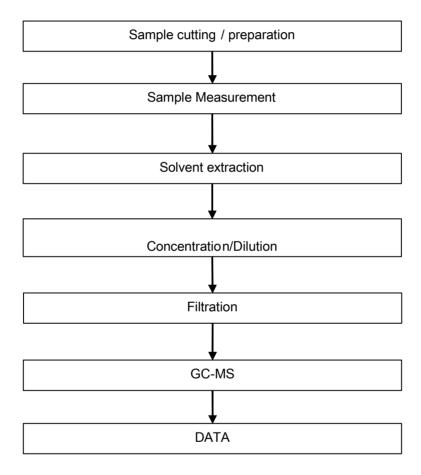


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ATTACHMENTS

PAHs Testing Flow Chart

- 1) Name of the person who made testing: Judy Zhang
- 2) Name of the person in charge of testing: Qiong Liu





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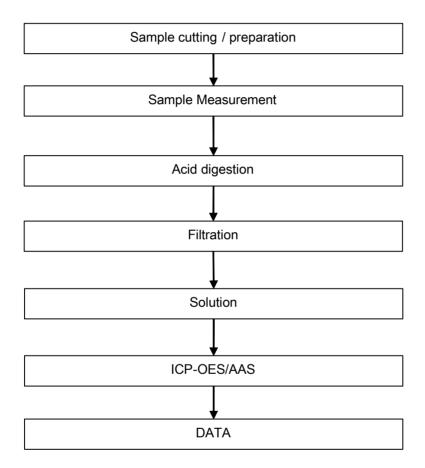


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ATTACHMENTS

Elementary Testing Flow Chart

1) Name of the person who made testing: Edith Zhang 2) Name of the person in charge of testing: Bella Wang





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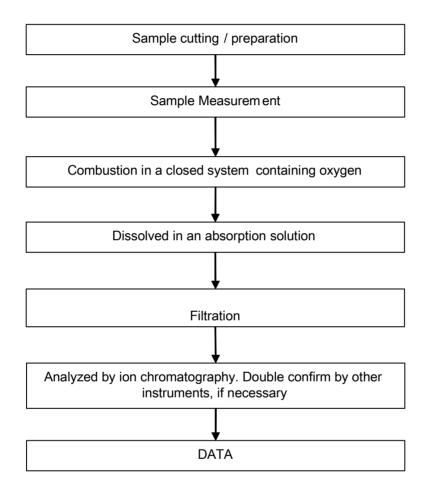


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ATTACHMENTS

Halogen Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang





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