Test Report
检测报告

No.: CANEC24015763701 **Date:** Jul 24, 2024 Page 1 of 36

日期： 2024 年 07 月 24 日 页码 1 of 36

Client Name:	Avery Dennison(China) Co,.Ltd.
客户名称：	艾利丹尼森（中国）有限公司
Client Address:	No.608 Kunjia Road, Kunshan Economic & Technological Development Zone, Jiangsu Province, P.R.China
客户地址：	江苏省昆山市经济技术开发区昆嘉路 608 号

Sample Name:	Semigloss Paper
样品名称:	Semigloss Paper
Client Ref. Information:	Semigloss Paper PC
客户参考信息:	Semigloss Paper PC

The above sample(s) and information were provided by the client.
以上样品及信息由客户提供。

SGS Job No.:	GZP24-022460
SGS 工作编号:	GZP24-022460
Sample Receiving Date:	Jul 18, 2024
样品接收时间:	2024 年 07 月 18 日
Testing Period:	Jul 18, 2024 ~ Jul 24, 2024
检测周期:	2024 年 07 月 18 日 ~ 2024 年 07 月 24 日
Test Requested:	Select test(s) as requested by the client.
检测要求:	根据客户要求检测
Test Method(s):	Please refer to next page(s).
检测方法:	见后续页。
Test Result(s):	Please refer to next page(s).
检测结果:	见后续页。

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通标标准技术服务有限公司广州分公司
授权签名

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7565D46D

Violet Shi 史丽兰
Approved Signatory
批准签署人

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Test Requirement 检测要求	Conclusion 结论
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) 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基已基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	Pass 符合
Halogen 卤素	Pass 符合
Phthalates 邻苯二甲酸酯	See Results 见检测结果
Polyvinyl Chloride(PVC) 聚氯乙烯(PVC)	See Results 见检测结果
Polycyclic Aromatic Hydrocarbons (PAHs) 多环芳香烃(PAHs)	See Results 见检测结果
European Regulation POPs (EU) 2019/1021– Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs) 欧盟 POPs 法规(EU) 2019/1021–C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	Pass 符合
European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) 欧盟 POPs 法规(EU) 2019/1021–六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	Pass 符合
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonic acid (PFOS) and its derivatives 全氟辛酸(PFOA)及其盐&全氟辛烷磺酸(PFOS)及衍生物	Pass 符合
Elementary Analysis 元素分析	See Results 见检测结果

Test Result(s):
检测结果：

Test Part Description：
检测部件外观描述:

SN ID 样品序号	Sample No. 样品编号	SGS Sample ID SGS 样品 ID	Description 样品描述
SN1	A1	CAN24-0157637-0001.C001	White paper sheet 白色纸片

Remarks:
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)

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(4) "-" = Not Regulated

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检测限
(3) ND = 未检出(< MDL)
(4) "-" = 未规定

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)
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基已基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (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.
检测方法： 参考 IEC 62321-4:2013+AMD1:2017，IEC 62321-5:2013，IEC 62321-7-2:2017，IEC 62321-6:2015 和 IEC 62321-8:2017，采用 ICP-OES/AAS，UV-Vis 和 GC-MS 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	ND
Mercury (Hg) / 汞 (Hg)	1000	mg/kg	2	ND
Cadmium(Cd) / 镉 (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) / 六价铬 (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs) / 多溴联苯之和 (PBB)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB) / 一溴联苯 (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB) / 二溴联苯 (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB) / 三溴联苯 (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB) / 四溴联苯 (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB) / 五溴联苯 (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB) / 六溴联苯 (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB) / 七溴联苯 (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB) / 八溴联苯 (OctaBB)	-	mg/kg	5	ND

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Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Nonabromobiphenyl (NonaBB) / 九溴联苯 (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB) / 十溴联苯 (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs) / 多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE) / 一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE) / 二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE) / 三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE) / 四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE) / 五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE) / 六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE) / 七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE) / 八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE) / 九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE) / 十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP) / 邻苯二甲酸二异丁酯 (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.

备注：
(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。

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(2) IEC 62321 系列等同于 EN 62321 系列。
(3) 2021 年 7 月 22 号开始，DEHP， BBP， DBP 和 DIBP 的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

Halogen
卤素

Test Method: With reference to EN 14582:2016, analysis was performed by IC.
检测方法： 参考 EN 14582:2016，采用 IC 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Fluorine(F) / 氟(F)	-	mg/kg	20	ND
Chlorine(Cl) / 氯(Cl)	900	mg/kg	50	245
Bromine(Br) / 溴(Br)	900	mg/kg	50	ND
Chlorine (Cl)+ Bromine (Br) / (氯(Cl),溴(Br))总量	1500	mg/kg	50	245
Iodine(I) / 碘(I)	-	mg/kg	50	ND
Conclusion / 结论				**Pass 符合**

Notes:
The maximum permissible limit is quoted from the client requirement.

备注：
最大允许限值来源于客户要求。

Phthalates
邻苯二甲酸酯

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.
检测方法： 参考 EN 14372:2004，采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯(BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基) (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP) / 邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-Octyl Phthalate(DNOP) / 邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND

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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Diisodecyl Phthalate (DIDP) / 邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Dimethyl Phthalate(DMP) / 邻苯二甲酸二甲酯(DMP)	131-11-3	%	0.003	ND
Diethyl Phthalate(DEP) / 邻苯二甲酸二乙酯(DEP)	84-66-2	%	0.003	ND
Dipropyl Phthalate(DPrP) / 邻苯二甲酸二丙酯 (DPrP)	131-16-8	%	0.003	ND
Diisobutyl Phthalate(DIBP) / 邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
Dipentyl Phthalates (DnPP) / 邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%	0.003	ND
Di-n-Hexyl Phthalate(DnHP) / 邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
Dicyclohexyl Phthalate(DCHP) / 邻苯二甲酸二环己酯(DCHP)	84-61-7	%	0.003	ND
Diphenyl Phthalate(DPhP) / 邻苯二甲酸二苯酯(DPhP)	84-62-8	%	0.003	ND
Dibenzyl Phthalate(DBzP) / 邻苯二甲酸二苄酯 (DBzP)	523-31-9	%	0.003	ND
Dinonyl Phthalate(DNP) / 邻苯二甲酸二壬酯(DNP)	84-76-4	%	0.003	ND
Diisooctyl Phthalate(DIOP) / 邻苯二甲酸二异辛酯(DiOP)	27554-26-3	%	0.010	ND
Bis(2-methoxyethyl)phthalate(DMEP) / 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND
Diisopentyl Phthalate(DIPP) / 邻苯二甲酸二异戊酯(DiPP)	605-50-5	%	0.003	ND
n-pentyl Isopentyl Phthalate(nPIPP) / 邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP) / 1,2-苯二甲酸,二-C6-8 支链烷基酯,富C7(DIHP)	71888-89-6	%	0.010	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) / 邻苯二酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	%	0.010	ND
1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear / 邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%	0.010	ND

Notes:

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(1) Method(s) is/are not accredited by CNAS.

备注：
(1) 项目不在 CNAS 认可范围内。

Polyvinyl Chloride(PVC)
聚氯乙烯(PVC)

Test Method: SGS In-house method (SGS-CCL-TOP-194-01), analysis was performed by Py-GC-MS / IC.
检测方法： SGS 内部方法 (SGS-CCL-TOP-194-01)，采用 Py-GC-MS / IC 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Polyvinyl chloride (PVC) / 聚氯乙烯 (PVC)	9002-86-2	%	0.05	ND

Notes:
(1) Polyvinyl chloride component includes its present in copolymer.
(2) Method(s) is/are not accredited by CNAS.

备注：

(1)聚氯乙烯成分包括共聚物中的聚氯乙烯。
(2) 项目不在 CNAS 认可范围内。

Polycyclic Aromatic Hydrocarbons (PAHs)
多环芳香烃(PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.
检测方法： 参考 AfPS GS 2019:01 PAK，采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Benzo(a)pyrene(BaP) / 苯并(a)芘(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP) / 苯并(e)芘(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA) / 苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF) / 苯并(b)荧蒽(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF) / 苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND

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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Benzo(k)Fluoranthene(BkF) / 苯并(k)荧蒽(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR) / 䓛(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA) / 二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE) / 苯并(g,h,i)苝(二萘嵌苯)(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY) / 茚苯(1,2,3-c,d)芘(IPY)	193-39-5	mg/kg	0.1	ND
Acenaphthylene(ANY) / 苊烯(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA) / 苊(萘嵌戊烷)(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU) / 芴(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE) / 菲(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR) / 芘(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT) / 蒽(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT) / 荧蒽(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene / 7 项多环芳香烃总和[苊烯(ANY),苊(萘嵌戊烷)(ANA),芴(FLU),菲(PHE),芘(PYR),蒽(ANT),荧蒽(FLT)]	-	mg/kg	-	ND
Naphthalene(NAP) / 萘(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 18 PAHs / 18 项多环芳香烃总和	-	mg/kg	-	ND

Notes:
Client requirements

	Category 1	Category 2	Category 3
Parameter	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin	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.

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	(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.	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:
[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

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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.

备注：
客户要求

参数	1 类	**2 类**		**3 类**	
	设计意图为放入口中的材料，或与皮肤长期接触（超过 30 秒）的材料用于 -2009/48/EC 定义的玩具，或 -供 3 岁以下儿童[a,b]使用。	不属于第 1 类，设计意图或可预见[d]与皮肤长期接触（超过 30 秒）或短期重复接触[c]的材料		不属于第 1 和 2 类，设计意图或可预见与皮肤短期接触（不超过 30 秒）材料	
		a.供儿童使用的产品	b.其他产品	a.供儿童使用的产品	b.其他产品
苯并(a)芘 (BaP),mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧蒽 (BkF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
䓛 (CHR) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝(二萘嵌苯) (BPE) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT),苊烯(ANY),苊(萘嵌戊烷) (ANA),芴 (FLU),7 PAH 之和, mg/kg	< 1 （总和）	< 5 （总和）	< 10 （总和）	< 20 （总和）	< 50 （总和）

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萘 (NAP) ,mg/kg	< 1	< 2		< 10	
18 PAH 之和	<1	< 5	< 10	< 20	< 50

注释:
[a] 儿童是指法定年龄未满 14 周岁的人。
[b] 供儿童使用包括儿童的主动接触或被动接触。
[c] “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
[d] 根据德国产品安全法（ProdSG）（第一章第 2 条第 28 款）的定义，“可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注：材料的分类参考 2020 年 4 月 10 日发布的 AfPS GS 2019:01 PAK 标准。苊烯(ANY)、苊(萘嵌戊烷)(ANA)和芴（FLU）不在 AfPS GS 2019:1 PAK 的范围内，但是结合其在 AfPS GS 2014:01 PAK 的范围内，以及考虑到 LFGB 章节 30 的产品安全要求，推荐进行测试。

European Regulation POPs (EU) 2019/1021– Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs)
欧盟 POPs 法规(EU) 2019/1021–C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)

Test Method: With reference to ISO 22818:2021,analysis was performed by GC-NCl-MS.
检测方法： 参考 ISO 22818:2021，采用 GC-NCI-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs) / C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 and others 85535-84-8 和其它	1500	mg/kg	50	ND
Conclusion / 结论					**Pass 符合**

Notes:
(1) Method(s) is/are not accredited by CNAS.

备注：
(1) 项目不在 CNAS 认可范围内。

European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)
欧盟 POPs 法规(EU) 2019/1021–六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.
检测方法： 参考 IEC 62321-9:2021，采用 GC-MS 进行分析。

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Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) / 六溴环十二烷(HBCDD)及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	100	mg/kg	20	ND
Conclusion / 结论					**Pass 符合**

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonic acid (PFOS) and its derivatives
全氟辛酸(PFOA)及其盐&全氟辛烷磺酸(PFOS)及衍生物

Test Method: Modified CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.
检测方法： 优化的 CEN/TS 15968:2010, 采用 HPLC-MS 或 LC-MS/MS 进行分析。

Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Perfluorooctane sulfonates (PFOS) and its salts* / 全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	-	mg/kg	0.010	ND
Perfluorooctanoic acid (PFOA) and its salts* / 全氟辛酸 (PFOA), 及其盐^	-	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonamide (PFOSA) / 全氟辛基磺酰胺 (PFOSA), 及其盐^	754-91-6	-	mg/kg	0.010	ND
2-(N-methylperfluoro- 1-octanesulfonamido) -ethanol (N-MeFOSE) / 2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) / 2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) / N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) / N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives / 全氟辛烷磺酸(PFOS)及其衍生物	-	0.025	mg/kg	-	ND
Conclusion / 结论					**Pass 符合**

Notes:

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(1) The maximum permissible limit is quoted from the client requirement.
(2) ^=Substances refer to its salts/derivative listed in below table.
(3) Method(s) is/are not accredited by CNAS.

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-$NH_2(C_2H_4OH)_2$)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
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-$N(C_4H_9)_4$)	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
PFOSA, its salts	
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
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 perfluorooctanote (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-$NH(C_4H_{10}N)$	423-52-9

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Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9

备注：

(1) 最大允许限值来源于客户要求。
(2) ^=物质是指附表中列出的盐/衍生物。
(3) 项目不在 CNAS 认可范围内。

物质名称	CAS No.
PFOS, 及其盐&衍生物	
全氟辛烷磺酸 (PFOS)	1763-23-1
全氟辛基磺酸钾 (PFOS-K)	2795-39-3
全氟辛基磺酸锂 (PFOS-Li)	29457-72-5
全氟辛基磺酸钠 (PFOS-Na)	4021-47-0
全氟辛基磺酸铵 (PFOS-NH_4)	29081-56-9
全氟辛基磺酸二乙醇铵 (PFOS-NH_2 (C_2H_4OH)$_2$)	70225-14-8
全氟辛基磺酸四乙基铵 (PFOS-N (C_2H_5)$_4$)	56773-42-3
全氟辛基磺酸二癸二甲基铵 (PFOS-N($C_{10}H_{21}$)$_2$ (CH_3)$_2$)	251099-16-8
全氟辛基磺酸四丁基铵 (PFOS-N(C_4H_9)$_4$)	111873-33-7
全氟辛基磺酰氟 (PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁 (PFOS-Mg)	91036-71-4
全氟辛烷磺酸哌啶	71463-74-6
PFOSA, 及其盐	
全氟辛基磺酰胺 (PFOSA)	754-91-6
全氟辛基磺酰胺锂盐 (1:1) (PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8
全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH_4)	76752-72-2
PFOA, 及其盐&衍生物	
全氟辛酸 (PFOA)	335-67-1
全氟辛酸钠 (PFOA-Na)	335-95-5
全氟辛酸钾 (PFOA-K)	2395-00-8
全氟辛酸银 (PFOA-Ag)	335-93-3
全氟辛酰氟 (PFOA-F)	335-66-0
全氟辛酸铵 (APFO)	3825-26-1
全氟辛酸锂 (PFOA-Li)	17125-58-5
全氟辛酸钴 (PFOA-Co)	35965-01-6
全氟辛酸铯 (PFOA-Cs)	17125-60-9
全氟辛酸铬 (3+) (PFOA-Cr(3+))	68141-02-6

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全氟辛酸-哌嗪 (2:1)PFOA-NH($C_4H_{10}N$)	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酸酐	33496-48-9

Elementary Analysis
元素分析

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.
检测方法： 参考 US EPA 3052:1996，采用 ICP-OES/AAS 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A1
Beryllium(Be) / 铍(Be)	mg/kg	5	ND
Antimony(Sb) / 锑(Sb)	mg/kg	10	ND

Notes:
(1) Method(s) is/are not accredited by CNAS.

备注：
(1) 项目不在 CNAS 认可范围内。

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The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc… and just for internal reference.
除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。
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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

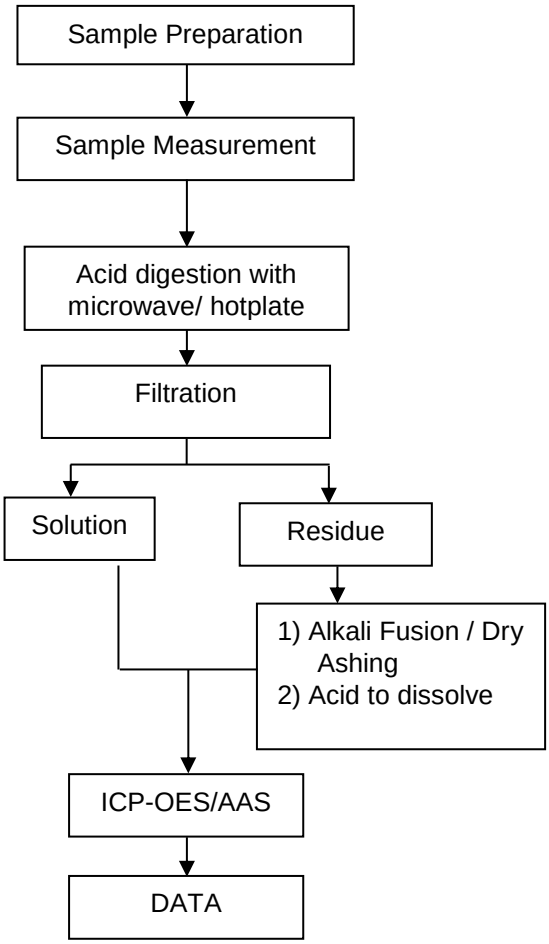
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Elements Testing Flow Chart

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



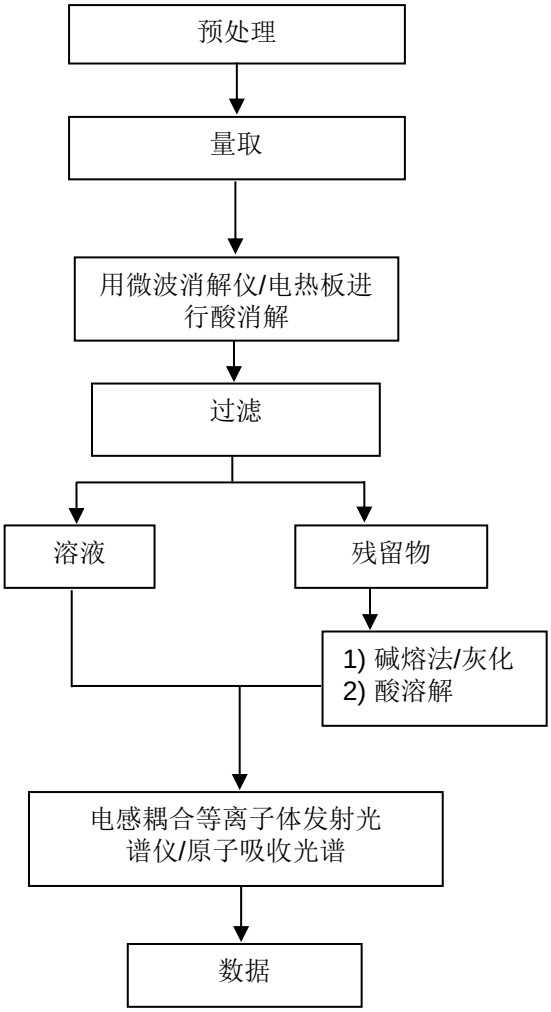
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元素检测流程图

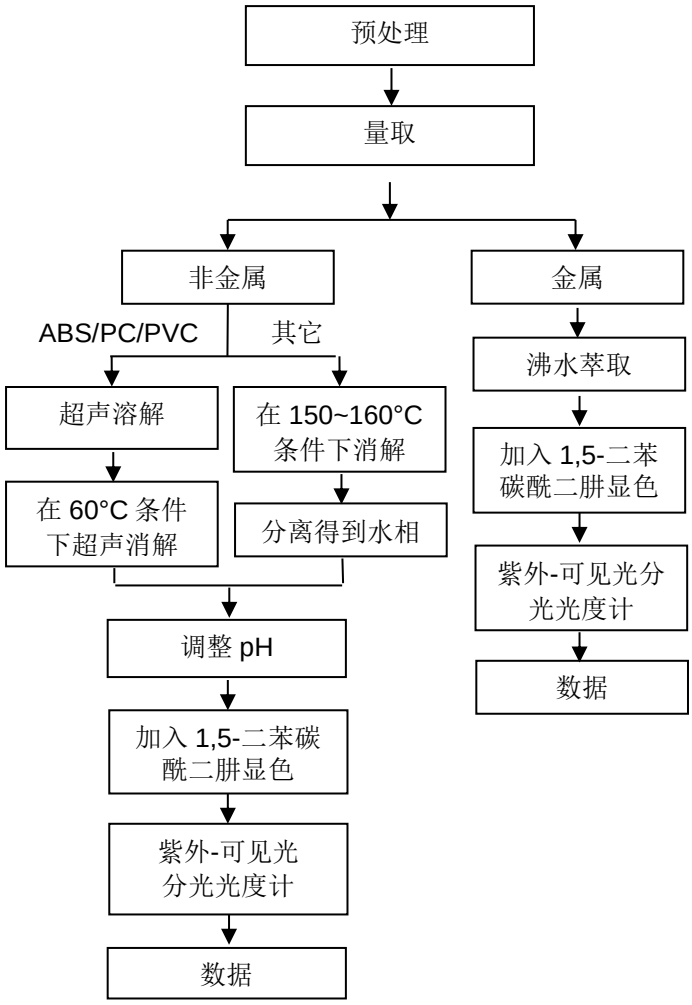
样品按照下述流程被完全消解



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六价铬检测流程图



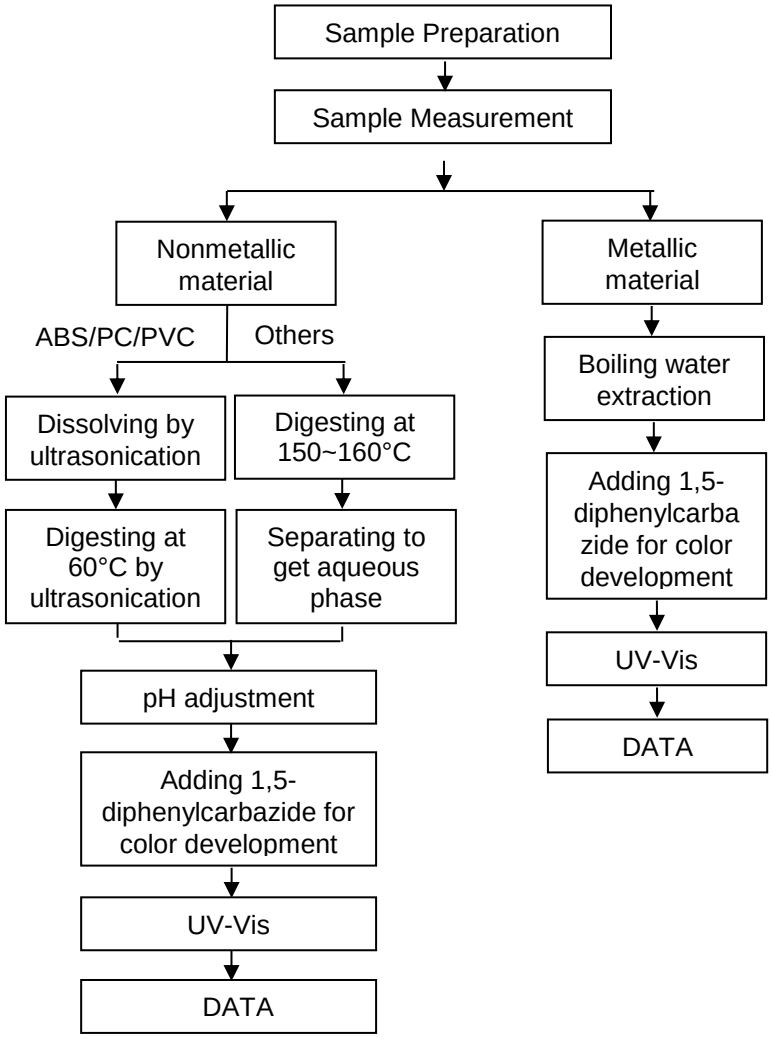
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

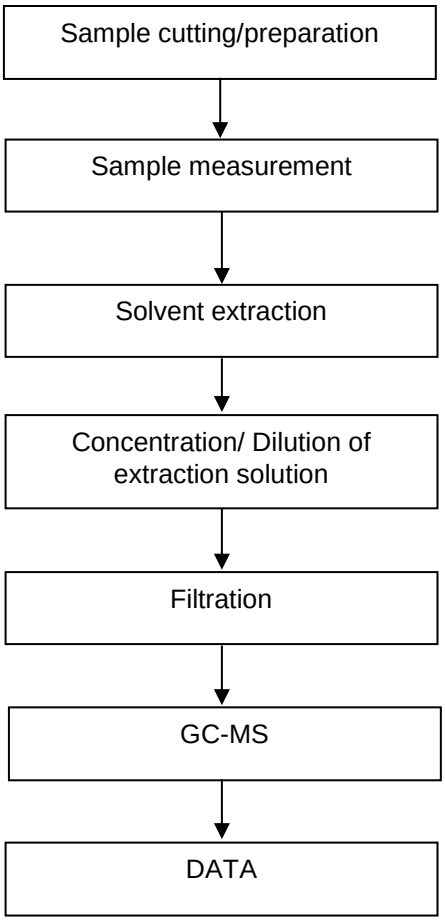


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PBB/PBDE Testing Flow Chart

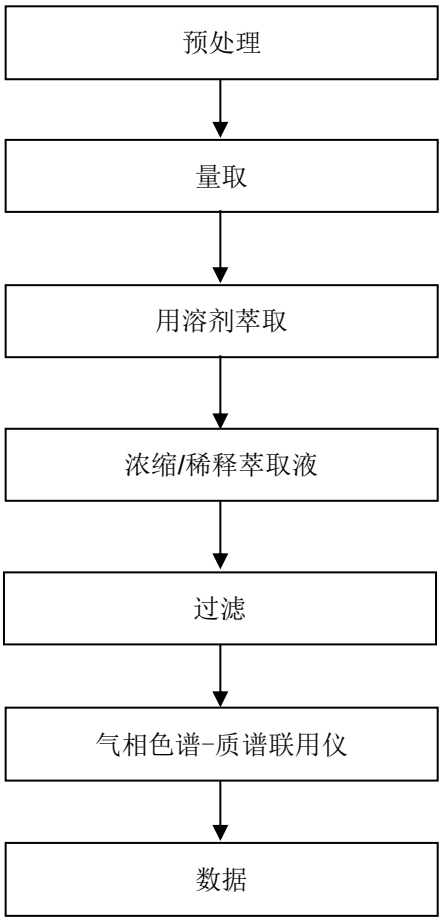


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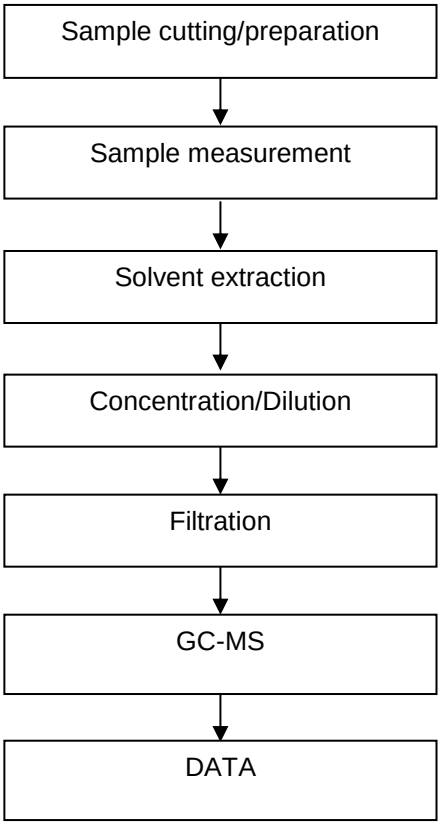
PBB/PBDE 检测流程图



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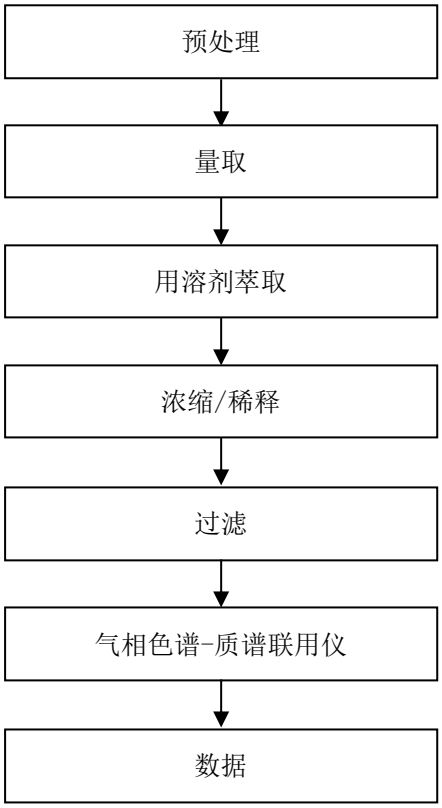
Phthalates Testing Flow Chart



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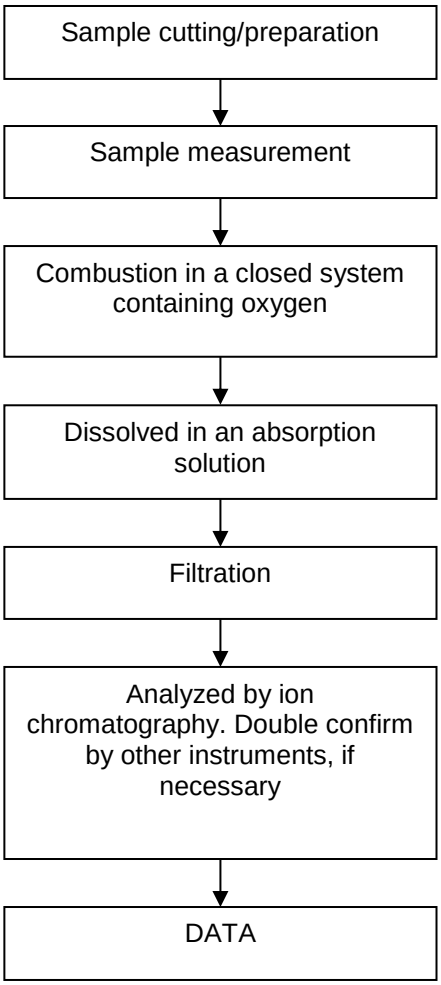
Phthalates 检测流程图



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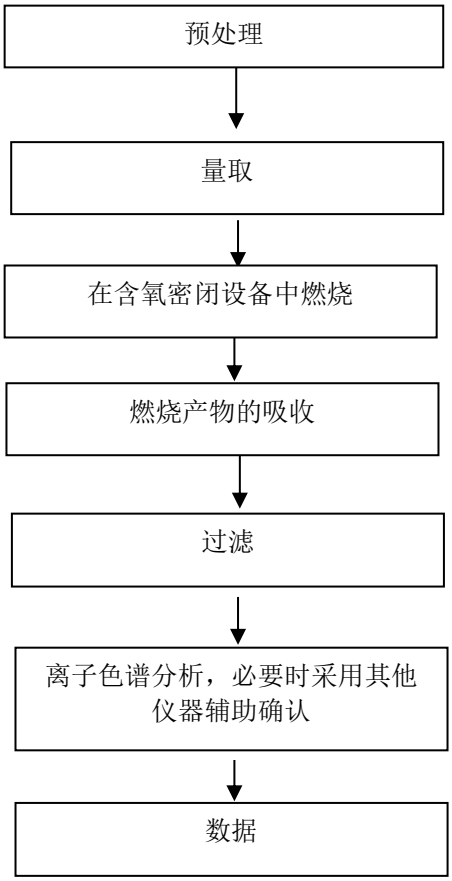
Halogen Testing Flow Chart



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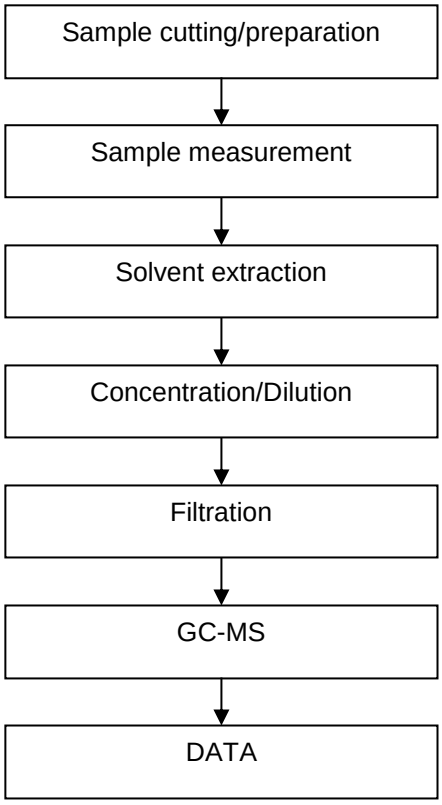
卤素检测流程图



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PAHs Testing Flow Chart



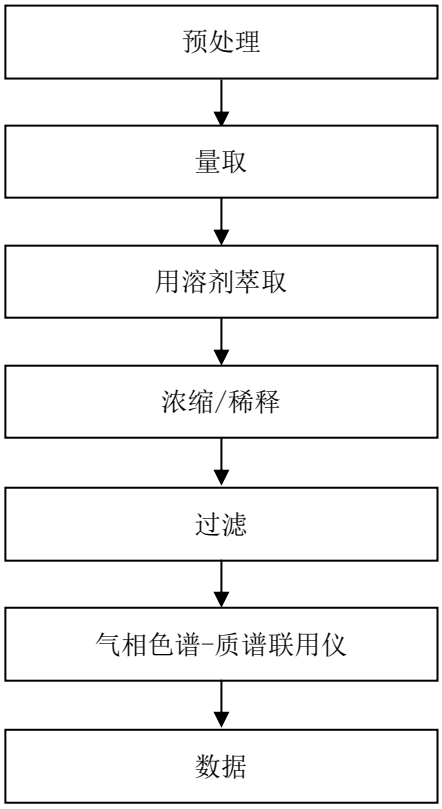
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PAHs 检测流程图

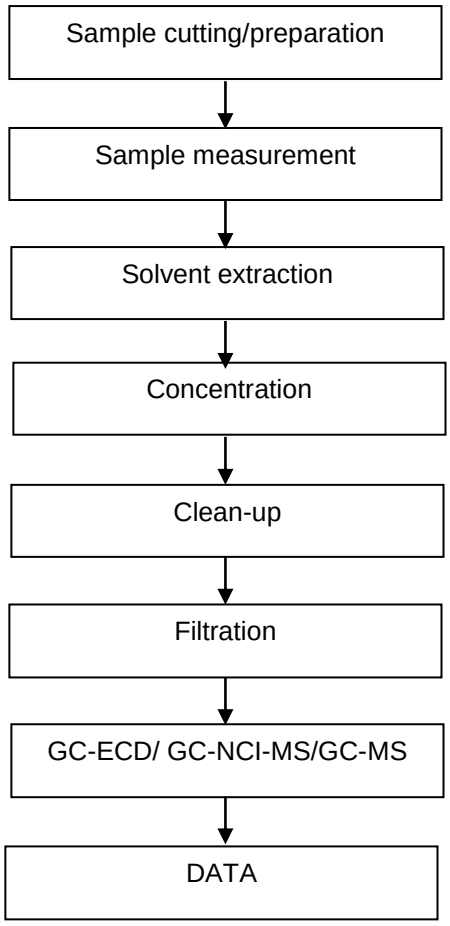


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Chlorinated Paraffin Testing Flow Chart

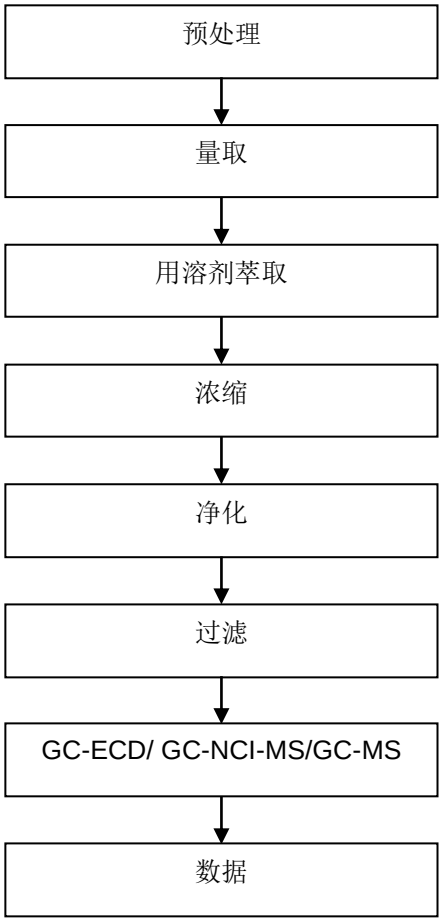


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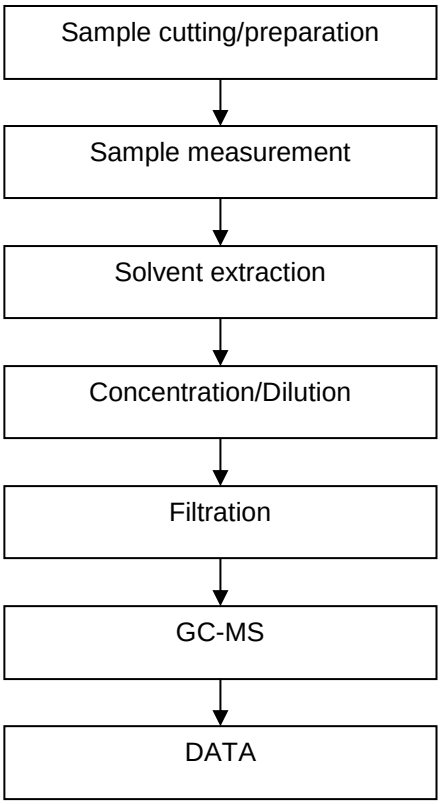
氯化石蜡检测流程图



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HBCDD Testing Flow Chart

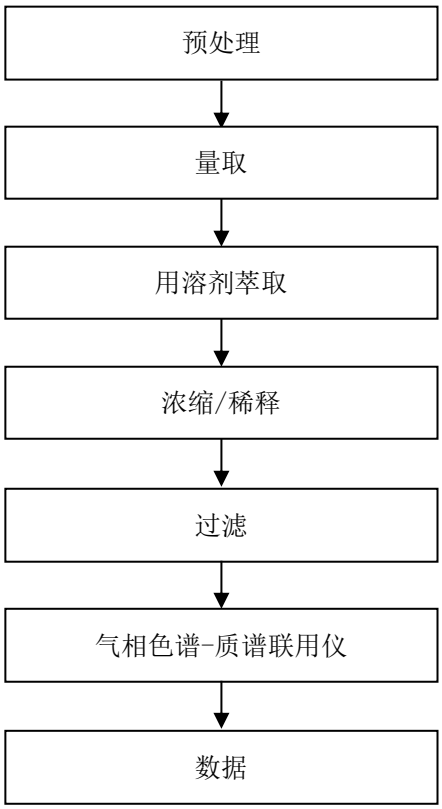


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HBCDD 检测流程图



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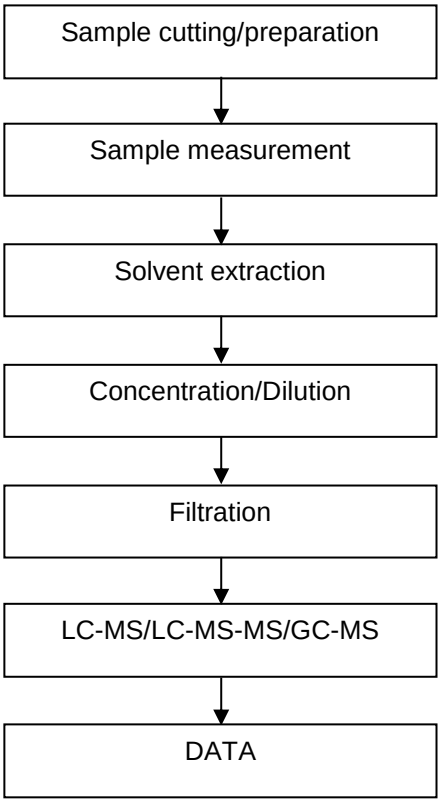
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PFASs/ PFOS/PFOA Testing Flow Chart

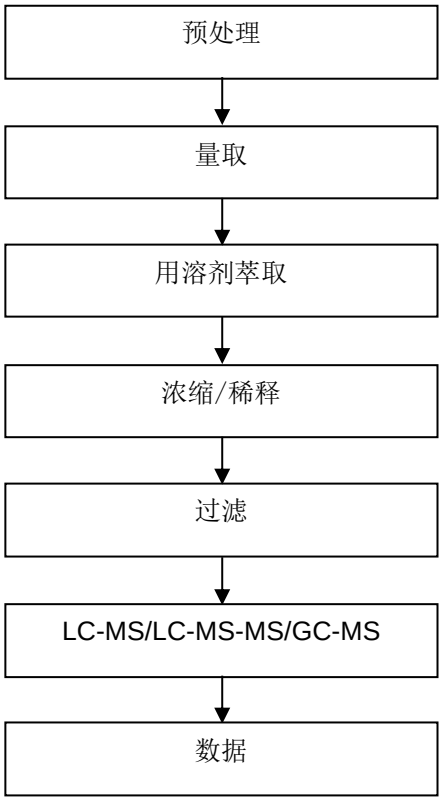


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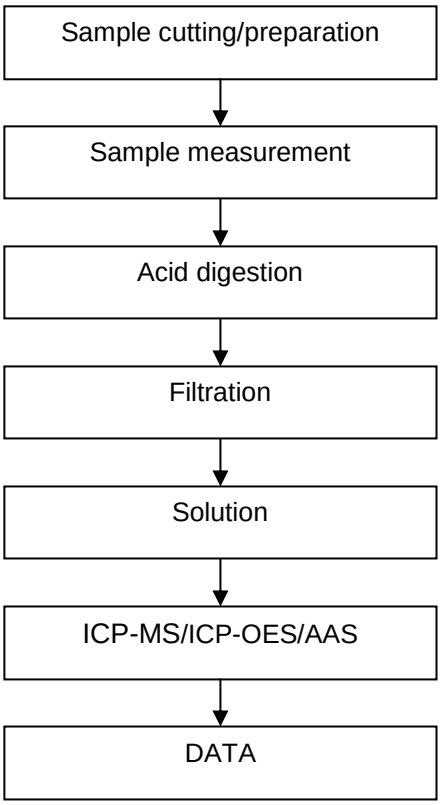
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Elements Testing Flow Chart

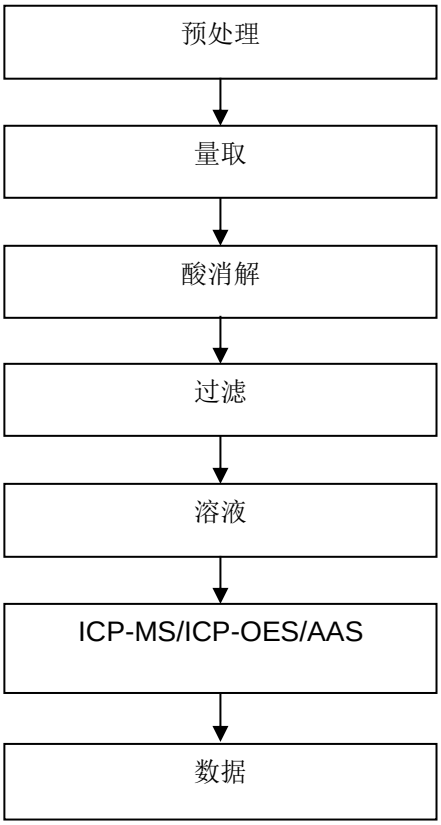


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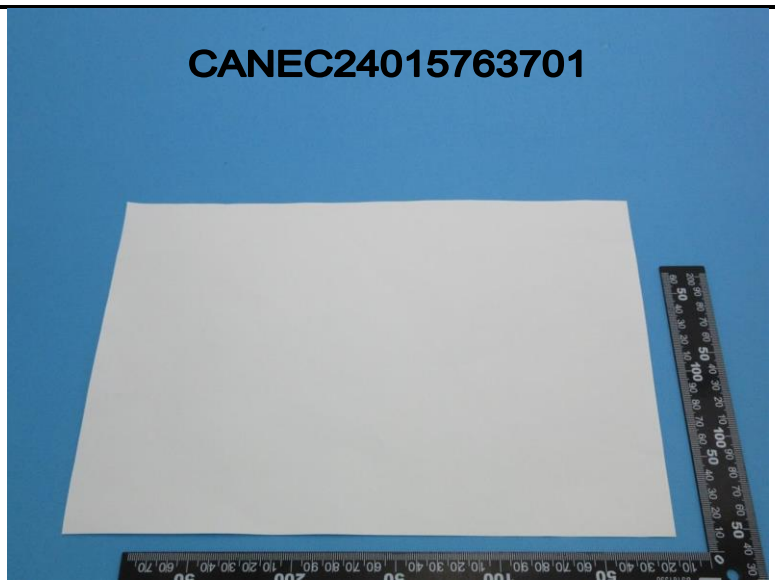


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