

Test Report
检测报告

No.: CANEC23011938514

Date: Oct 25, 2023

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日期: 2023 年 10 月 25 日

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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: White PET TC4

样品名称: White PET TC4

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.: GZP23-016503

SGS 工作编号: GZP23-016503

Sample Receiving Date: Oct 19, 2023

样品接收时间: 2023 年 10 月 19 日

Testing Period: Oct 19, 2023 ~ Oct 25, 2023

检测周期: 2023 年 10 月 19 日 ~ 2023 年 10 月 25 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

Kelly Qu

Kelly Qu 屈桃李
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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP) | Pass 符合 |
| Halogen 卤素 | Pass 符合 |
| 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 sulfonates (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 | A14 | CAN23-0119385-0001.C014 | White sheet 白色片 |

Remarks:

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



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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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)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, 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, UV-Vis 和 GC-MS 进行分析。

| Test Item(s) 检测项目 | Limit 限值 | Unit(s) 单位 | MDL | A14 |
|---|-------------|---------------|-----|-----|
| Cadmium(Cd) / 镉 (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) / 铅 (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) / 汞 (Hg) | 1000 | 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(PBBs) | 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 |
| 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(PBDEs) | 1000 | mg/kg | - | ND |



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| Test Item(s) 检测项目 | Limit 限值 | Unit(s) 单位 | MDL | A14 |
|---|-------------|---------------|-----|-----|
| 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 |
| Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 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。
 (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



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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 | A14 |
|---|-------------|---------------|-----|------------|
| Fluorine(F) / 氟(F) | - | mg/kg | 20 | ND |
| Chlorine(Cl) / 氯(Cl) | 900 | mg/kg | 50 | ND |
| Bromine(Br) / 溴(Br) | 900 | mg/kg | 50 | ND |
| Chlorine (Cl)+ Bromine (Br) / (氯(Cl),溴(Br))总量 | 1500 | mg/kg | 50 | ND |
| 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。

European Regulation POPs (EU) 2019/1021– Alkanes C₁₀-C₁₃, chloro (short chain-chlorinated paraffins) (SCCPs)**欧盟 POPs 法规(EU) 2019/1021–C₁₀-C₁₃ 氯代烃(短链氯化石蜡)(SCCPs)**

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-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 | A14 |
|--|---|-------------|---------------|-----|------------|
| 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。



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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。

| Test Item(s) 检测项目 | CAS No. | Limit 限值 | Unit(s) 单位 | MDL | A14 |
|---|--|-------------|---------------|-----|--------------------|
| 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 sulfonates (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: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

检测方法: 参考 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 | A14 |
|---|------------|-------------|---------------|-------|-----|
| Perfluorooctane sulfonates (PFOS) and its salts* / 全氟辛烷磺酸 (PFOS)及其盐* | - | - | 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) | 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 |

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|--|-----------|-------------|---------------|-------|------------|
| 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:

- (1) The maximum permissible limit is quoted from the client requirement.
- (2) Perfluorooctanoic acid (PFOA) and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
- (3) Perfluorooctane sulfonates (PFOS) and its salts* including PFOS (CAS No. 1763-23-1), POSF (CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.
- (4) Perfluorooctane sulfonates (PFOS) is/are accredited by CNAS.

备注:

- (1) 最大允许限值来源于客户要求。
- (2) 全氟辛酸 (PFOA) 及其盐*包括 PFOA (CAS No. 335-67-1)、APFO (CAS No. 3825-26-1)、PFOA-Na (CAS No. 335-95-5)、PFOA-K (CAS No. 2395-00-8)、PFOA-Ag (CAS No. 335-93-3) 和 PFOA-F (CAS No. 335-66-0)。全氟辛酸 (PFOA) 的结果用于表示全氟辛酸 (PFOA) 及其盐。
- (3) 全氟辛烷磺酸 (PFOS) 及其盐*包括全氟辛烷磺酸 (CAS No. 1763-23-1)、POSF (CAS No. 307-35-7)、PFOS-K (CAS No. 2795-39-3)、PFOS-NH₄ (CAS No. 29081-56-9)、PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8)、PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8)、PFOS-Li (CAS No. 29457-72-5)、PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) 和 PFOS-Na (CAS No. 4021-47-0)。全氟辛烷磺酸的结果用于表示全氟辛烷磺酸及其盐。
- (4) 全氟辛烷磺酸(PFOS)在 CNAS 认可范围内。

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 | A14 |
|-----------------------|---------------|-----|-----|
| Beryllium(Be) / 铍(Be) | mg/kg | 5 | ND |



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Test Report
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日期: 2023年10月25日 页码 8 of 27

| Test Item(s) 检测项目 | Unit(s) 单位 | MDL | A14 |
|----------------------|---------------|-----|-----|
| Antimony(Sb) / 锑(Sb) | mg/kg | 10 | 149 |

Notes:

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

备注:

(1) 项目不在 CNAS 认可范围内。

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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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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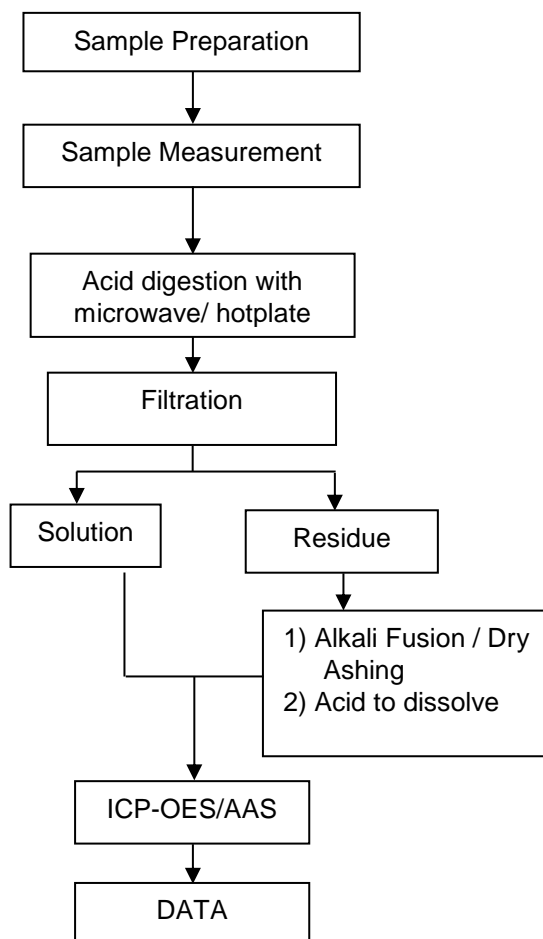
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Elements Testing Flow Chart

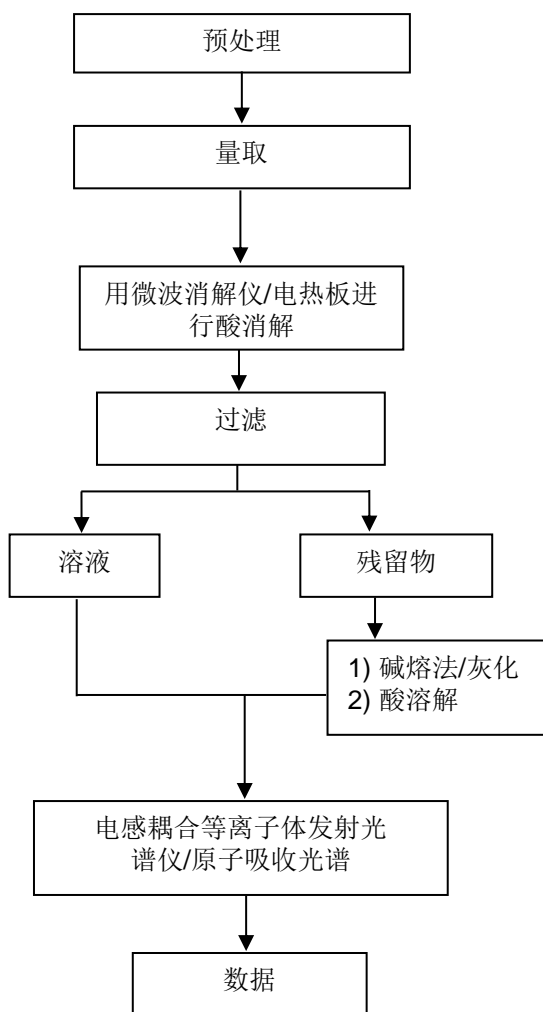
These samples were dissolved totally by pre-conditioning method according to below flow chart.



附件

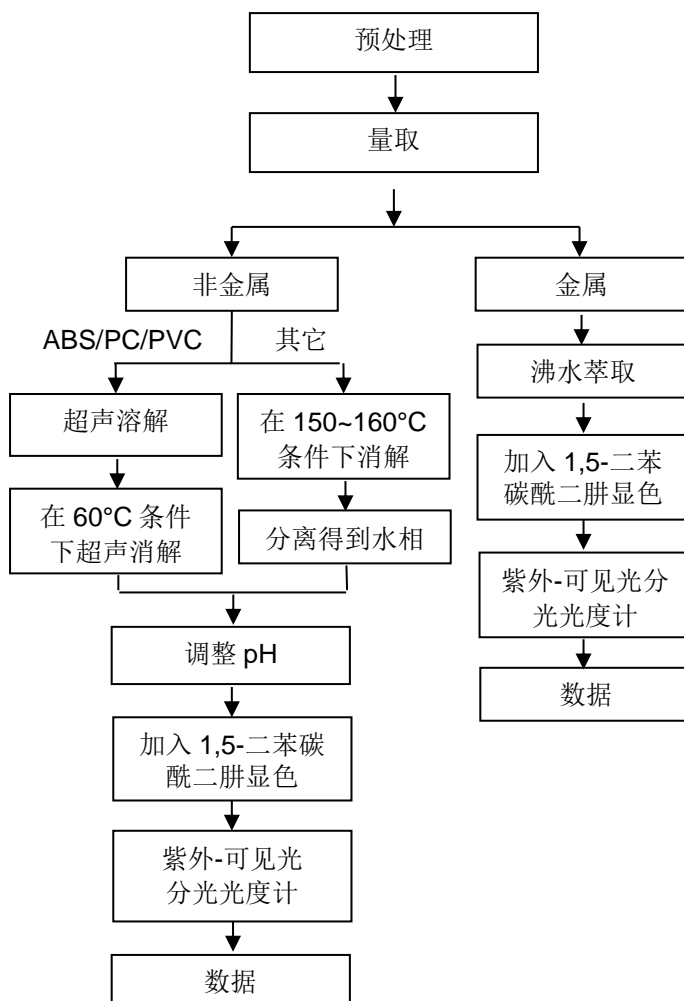
元素检测流程图

样品按照下述流程被完全消解



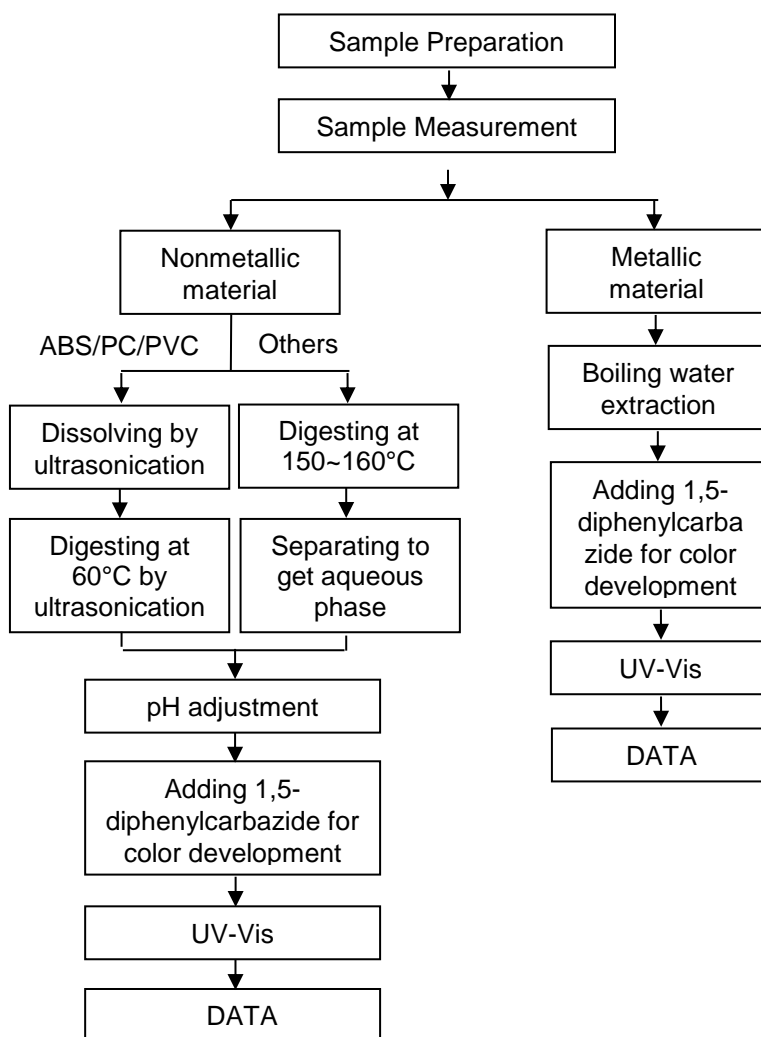
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六价铬检测流程图



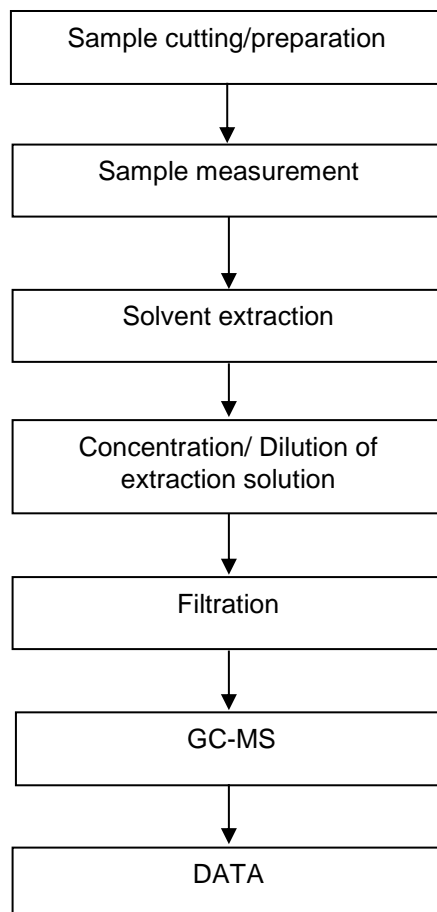
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBBs/PBDEs Testing Flow Chart



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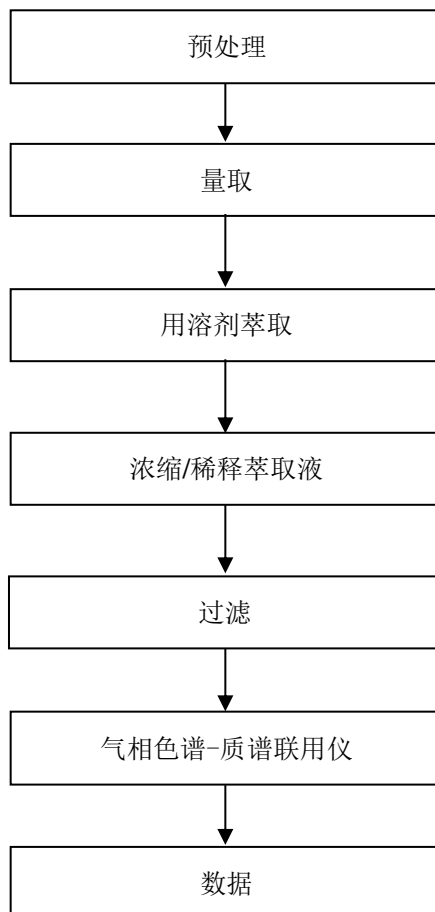
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PBBs/PBDEs 检测流程图

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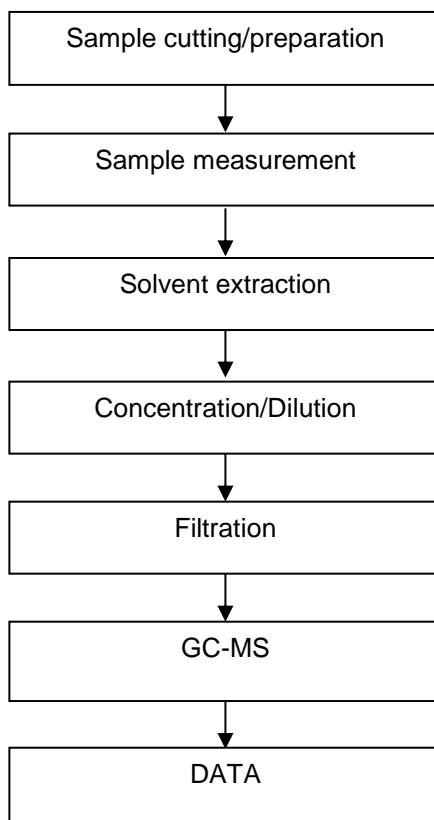
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Phthalates Testing Flow Chart



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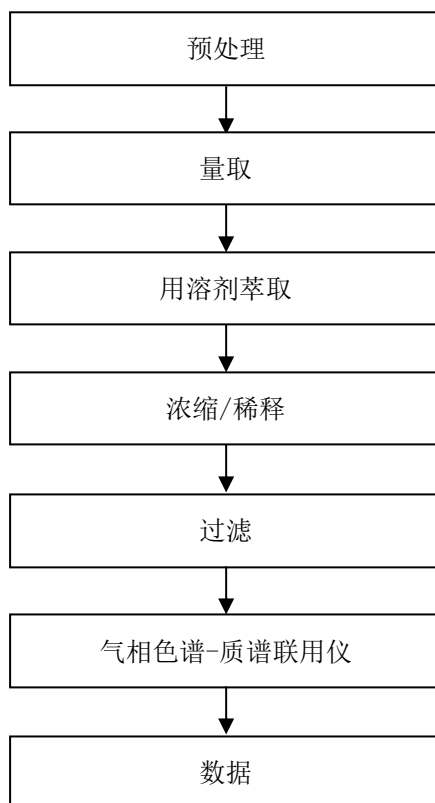
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Phthalates 检测流程图



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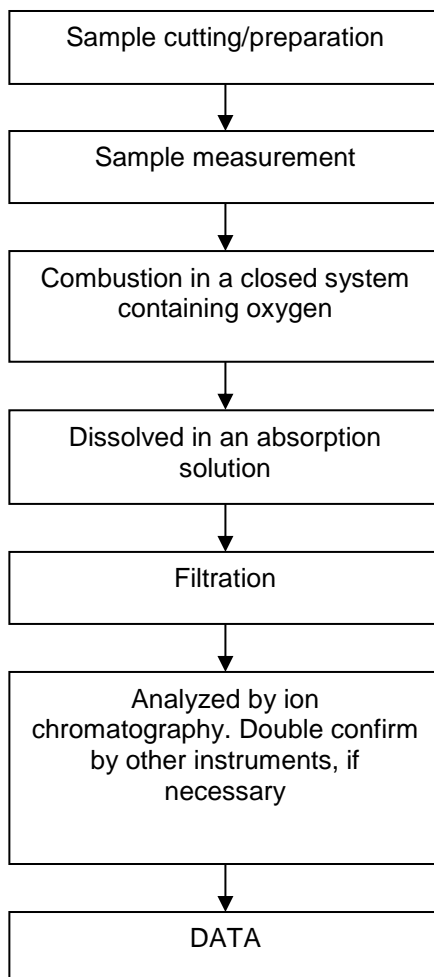
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Halogen Testing Flow Chart



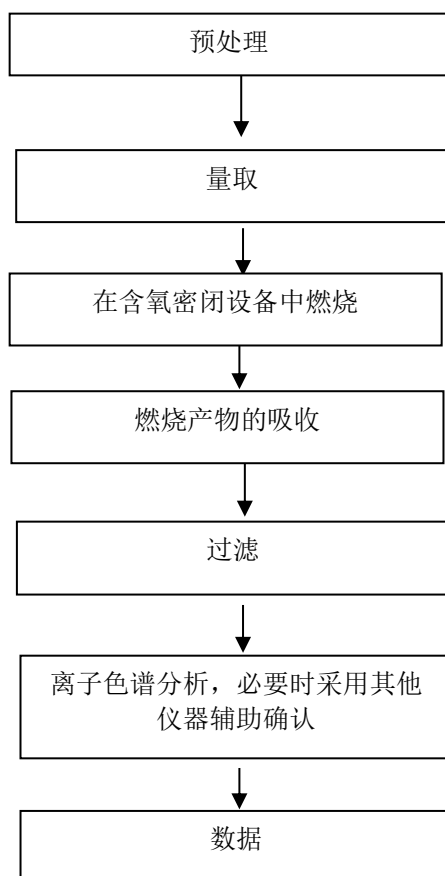
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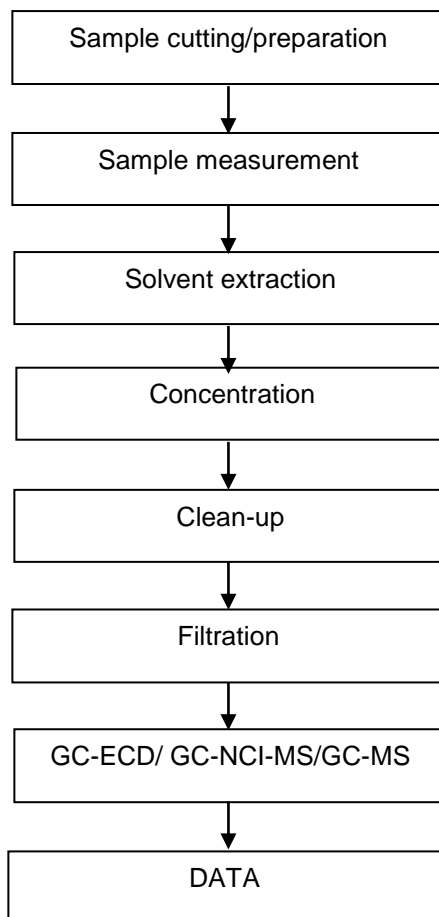
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卤素检测流程图

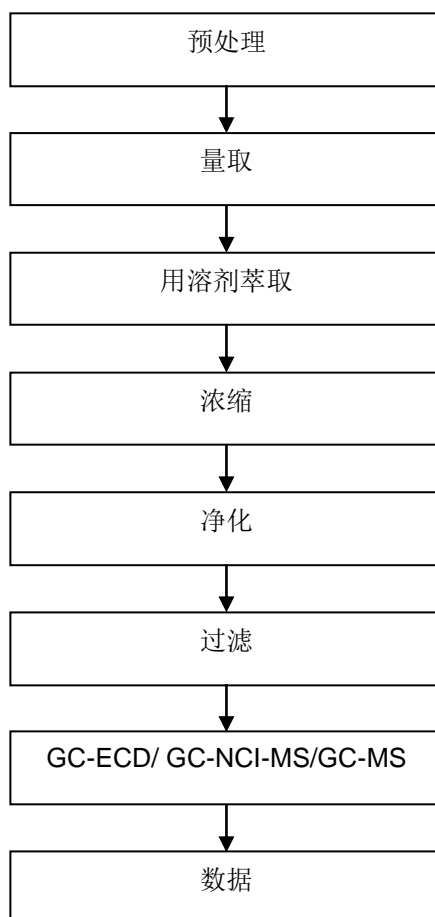


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Chlorinated Paraffin Testing Flow Chart

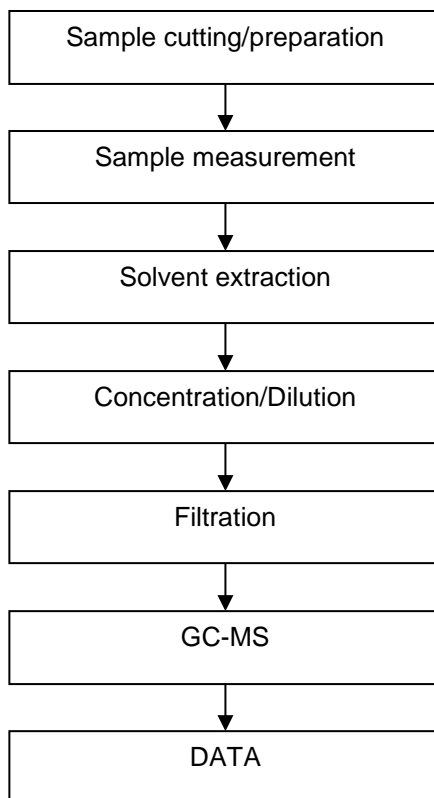


氯化石蜡检测流程图



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HBCDD Testing Flow Chart



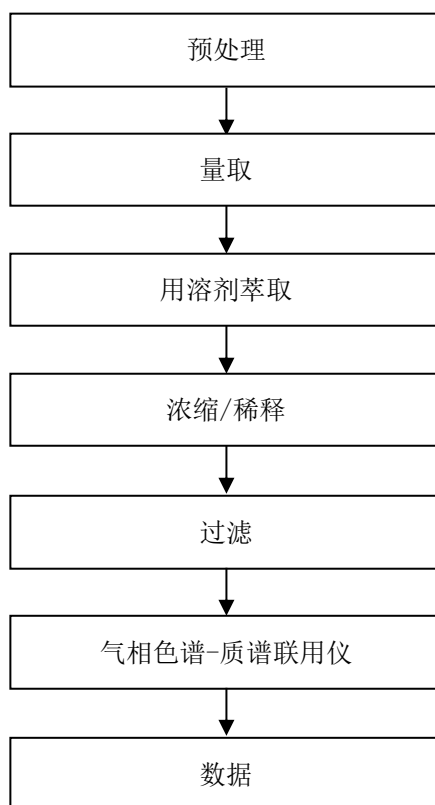
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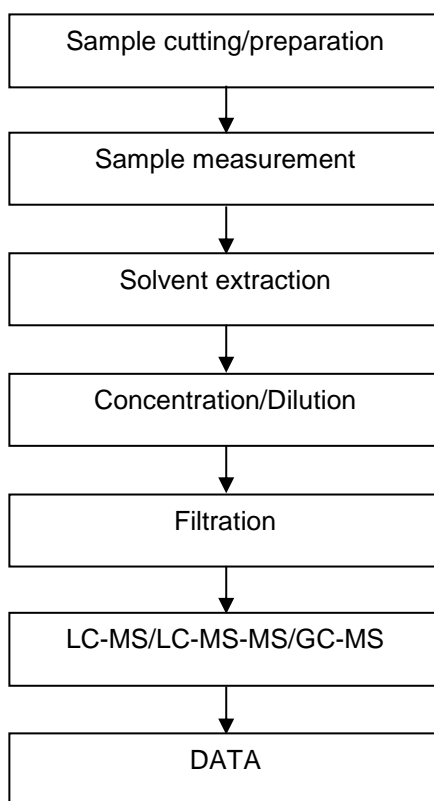
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HBCDD 检测流程图



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PFASs/ PFOS/PFOA Testing Flow Chart



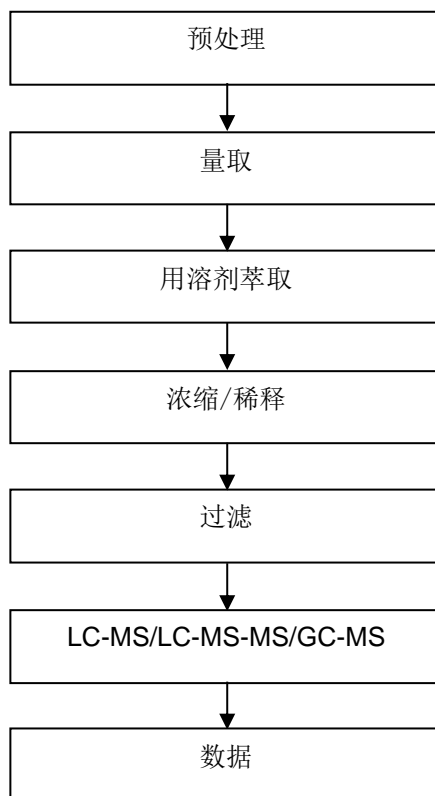
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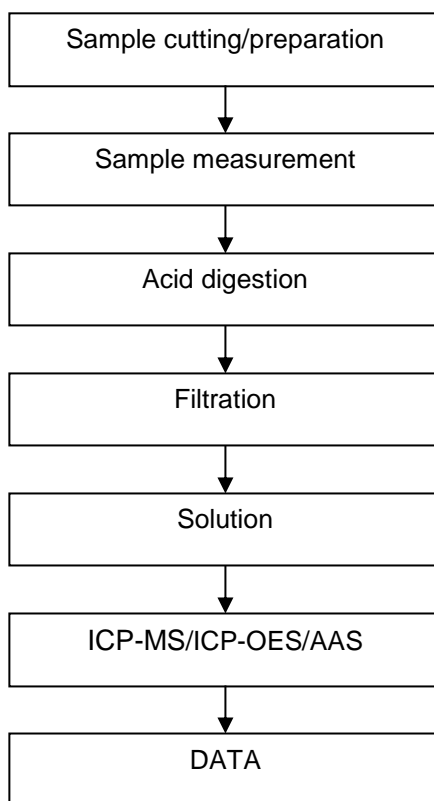
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PFASs/ PFOS/PFOA 检测流程图

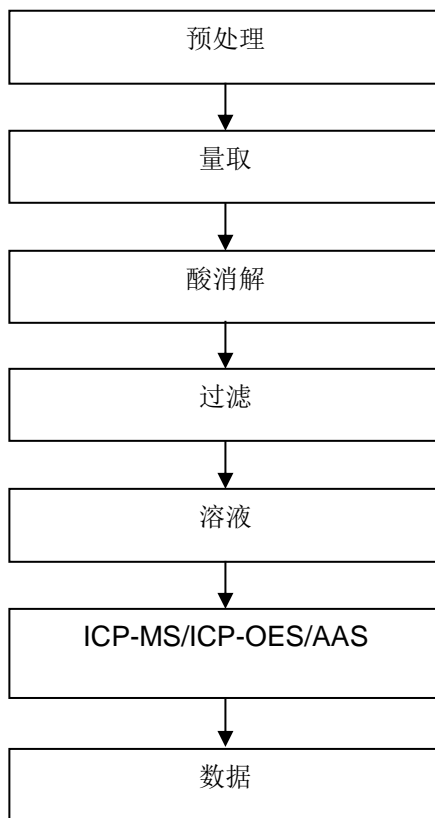


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Elements Testing Flow Chart



元素检测流程图



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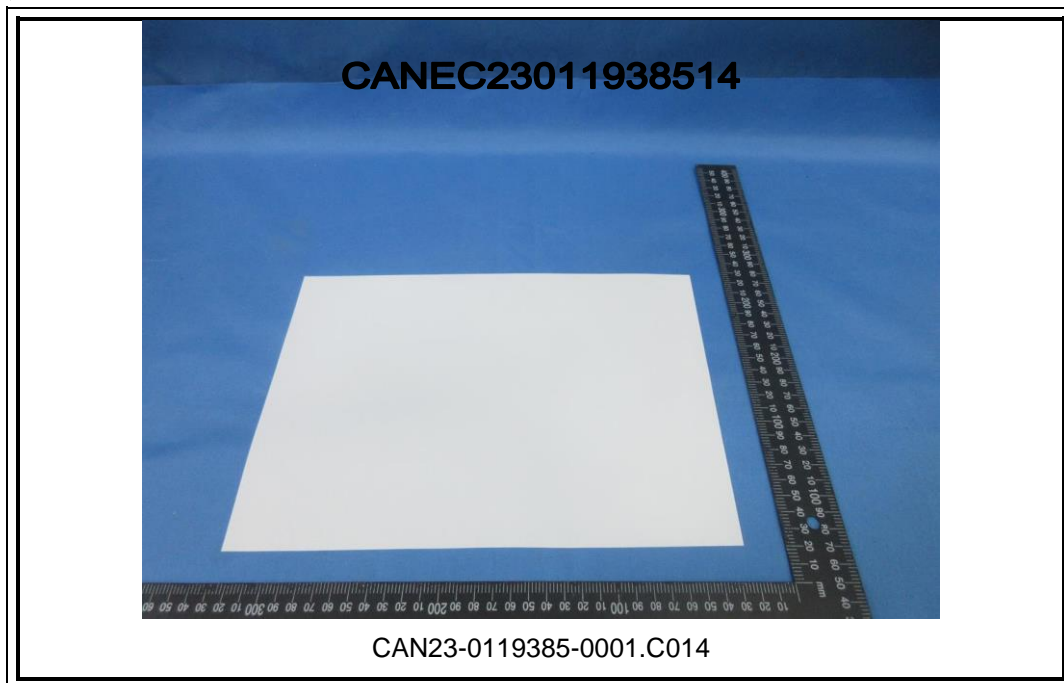
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