



检测报告

编号: SZXEC2300086202

日期: 2023年01月16日 第1页,共10页

客户名称: 安徽省富捷电子科技有限公司
客户地址: 安徽省马鞍山市郑蒲港新区新陶路107号金蒲电子产业园5号厂房

样品名称: 贴片电阻
型号: 0603
客户参考信息: 01005/0201/0402/0603/0805/1206/1210/1218/1812/2010/
2512/042R/044R/064R

以上样品及信息由客户提供。

SGS工作编号: RP23-000617 - SZ
样品接收日期: 2023年01月10日
检测周期: 2023年01月10日 - 2023年01月16日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页
检测结果概要:

检测要求	结论
欧盟RoHS指令2011/65/EU附录II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)	符合
元素分析	见检测结果
卤素	见检测结果
全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS) 及其衍生物	见检测结果

通标标准技术服务有限公司深圳分公司
授权签名

倪磊

Andy Ni倪磊
批准签署人



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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	SZX23-000862.001	"贴片电阻"

备注:

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

欧盟RoHS指令2011/65/EU附录II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)

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.

检测项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	824
汞 (Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

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。

元素分析

检测方法: SGS内部方法 (SGS-CCL-SOP-019-08, 参考EPA 3052:1996), 采用ICP-OES进行分析。

检测项目	单位	MDL	001
锑 (Sb)	mg/kg	10	ND

卤素

检测方法: 参考EN 14582:2016方法测定, 采用IC进行分析。

检测项目	单位	MDL	001
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物



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检测方法: 参考CEN/TS 15968:2010, 采用LC-MS或LC-MS/MS进行分析。

检测项目	CAS NO.	单位	MDL	001
全氟辛酸 (PFOA) 及其盐+	335-67-1	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) [^]	1763-23-1	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺) 乙醇 (MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺) 乙醇 (EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) 及其衍生物	-	mg/kg	-	ND

备注:

(1) + PFOA 及其盐包含 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) 和 APFO (CAS No.: 3825-26-1)

(2) ^ 全氟辛烷磺酸 (PFOS) 包含 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) 和 POSF (CAS No.: 307-35-7)

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。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

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。



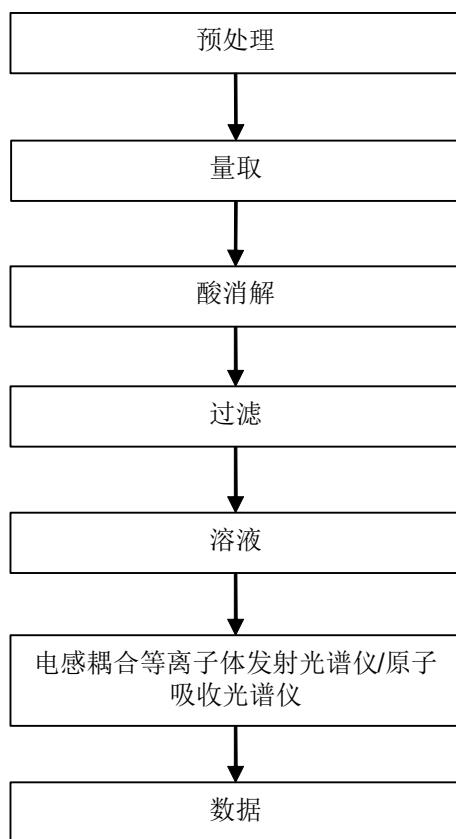
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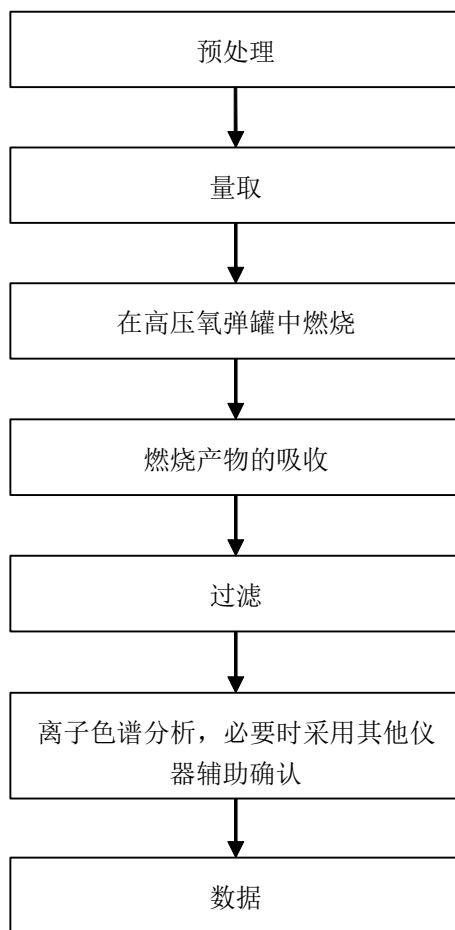
附件

元素检测流程图



附件

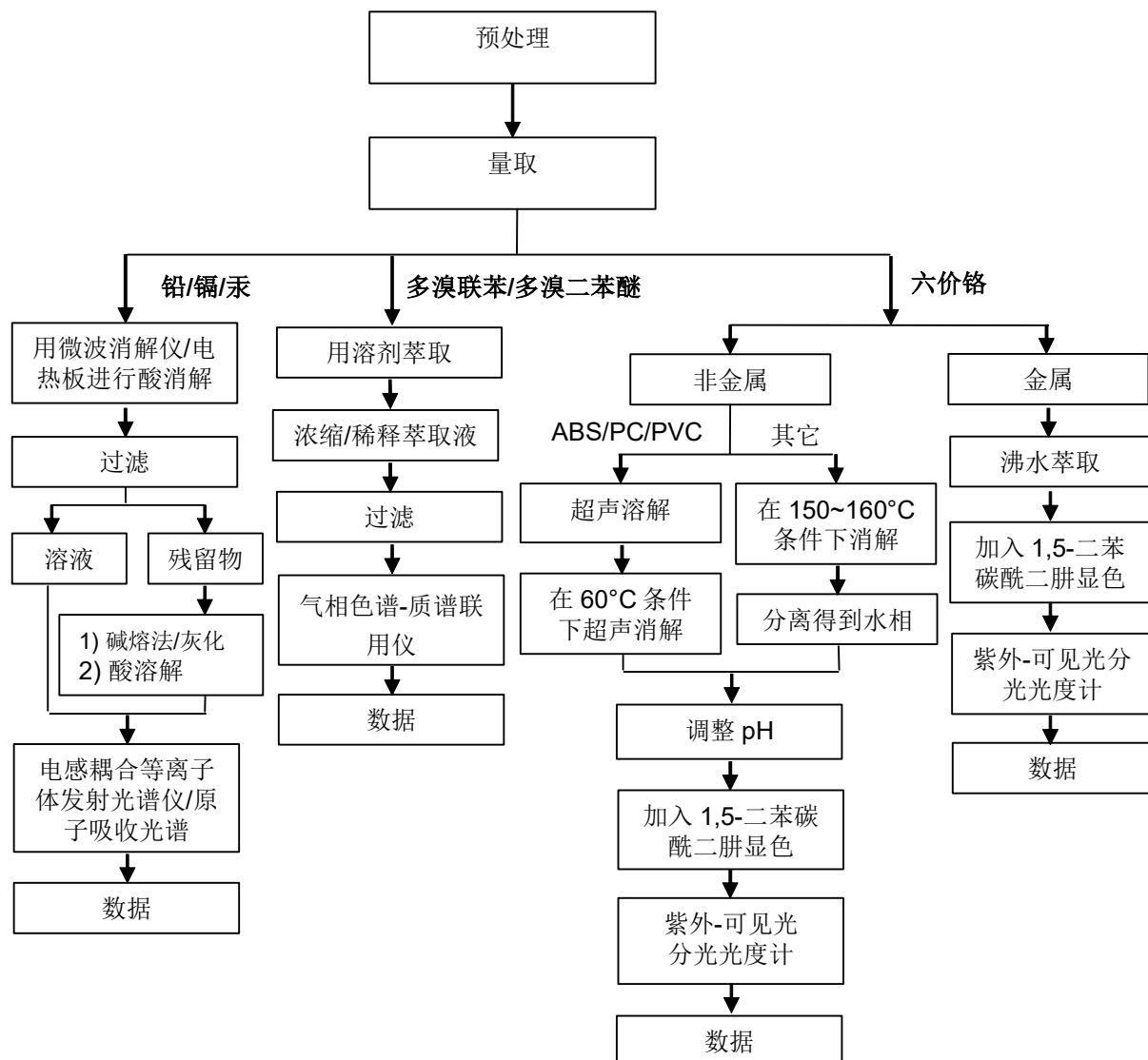
Halogen 检测流程图



附件

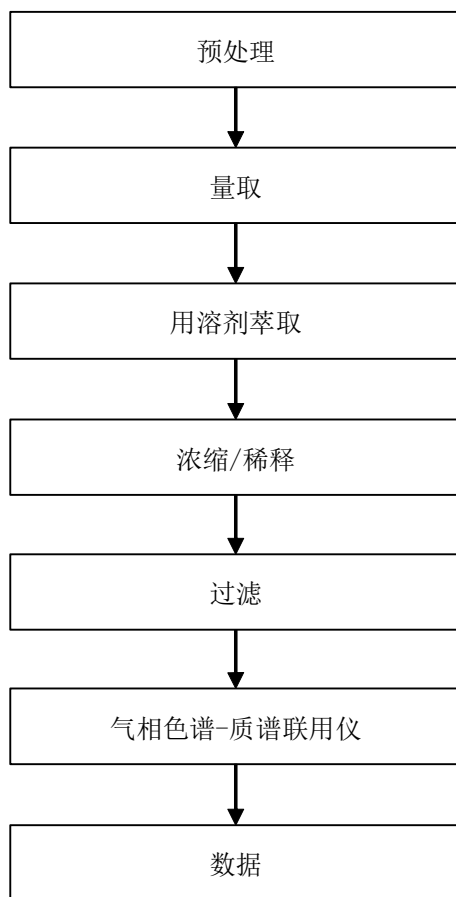
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



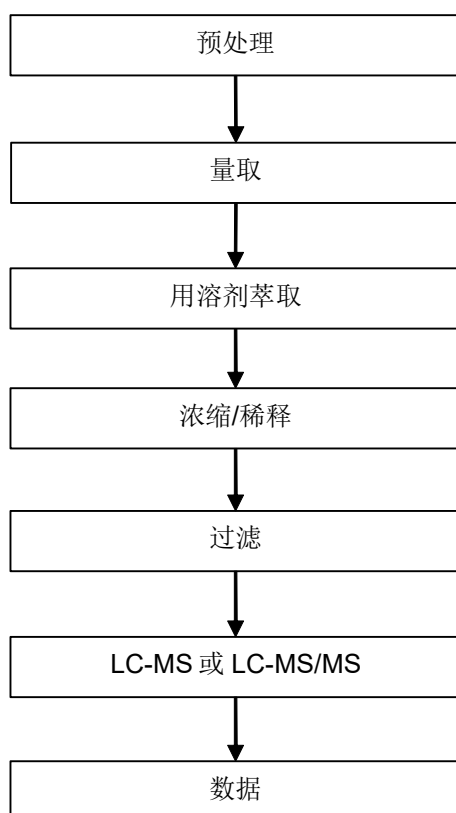
附件

Phthalates 检测流程图



附件

PFOA / PFOS 检测流程图



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