

检测报告

编号: SHAEC22004558704

日期: 2022 年 12 月 21 日

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客户名称: 常州市深绿电子有限公司
客户地址: 江苏常州市钟楼区新闻镇飞龙西路 69 号

样品名称: 铝电解电容器
型号: CD

以上样品及信息由客户提供。

SGS 工作编号: SP22-029479
样品接收时间: 2022 年 12 月 07 日
检测周期: 2022 年 12 月 07 日 - 2022 年 12 月 20 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合
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)	符合

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盛雯舒

Sue Sheng 盛雯舒
批准签署人

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	SHA22-0045587-0001.C002	银色金属
SN2	A4	SHA22-0045587-0001.C004	黑色塑料
SN3	A5	SHA22-0045587-0001.C005	淡黄色纸
SN4	A6	SHA22-0045587-0001.C006	黑色橡胶
SN5	A7	SHA22-0045587-0001.C007	银色金属

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

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, 和 IEC 62321-7-1:2015, 采用 ICP-OES, AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A2	A7
镉 (Cd)	100	mg/kg	2	ND	ND
铅 (Pb)	1000	mg/kg	2	7	5
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND	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) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
 b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
 c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表测试时样品含六价铬的状态。

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)



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编号: SHAEC22004558704

日期: 2022 年 12 月 21 日

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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	A4	A5	A6
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	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。

样品 A7 最新收样日期: 2022.12.16

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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检测报告

编号: SHAEC22004558704

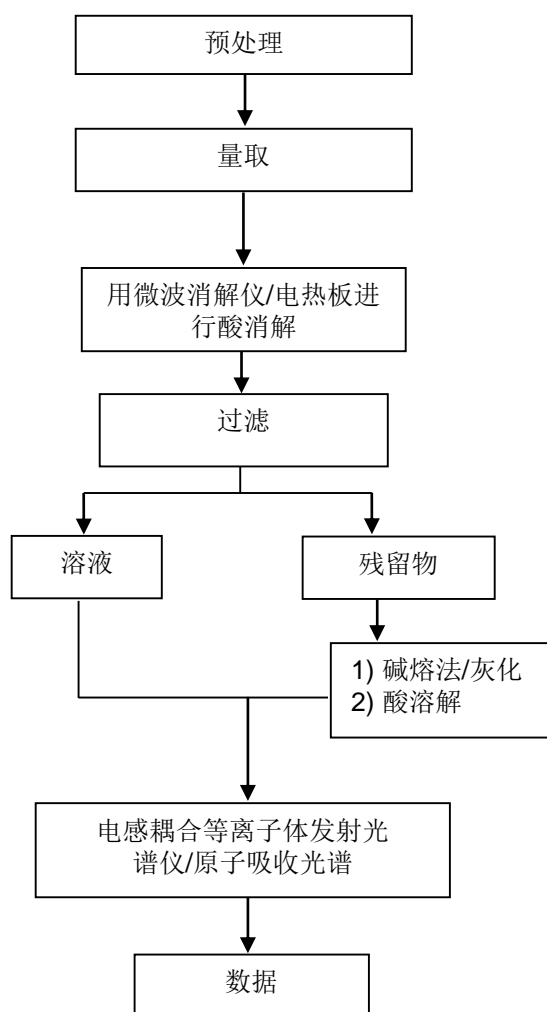
日期: 2022 年 12 月 21 日

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附件

元素 (IEC62321) 检测流程图

样品按照下述流程被完全消解



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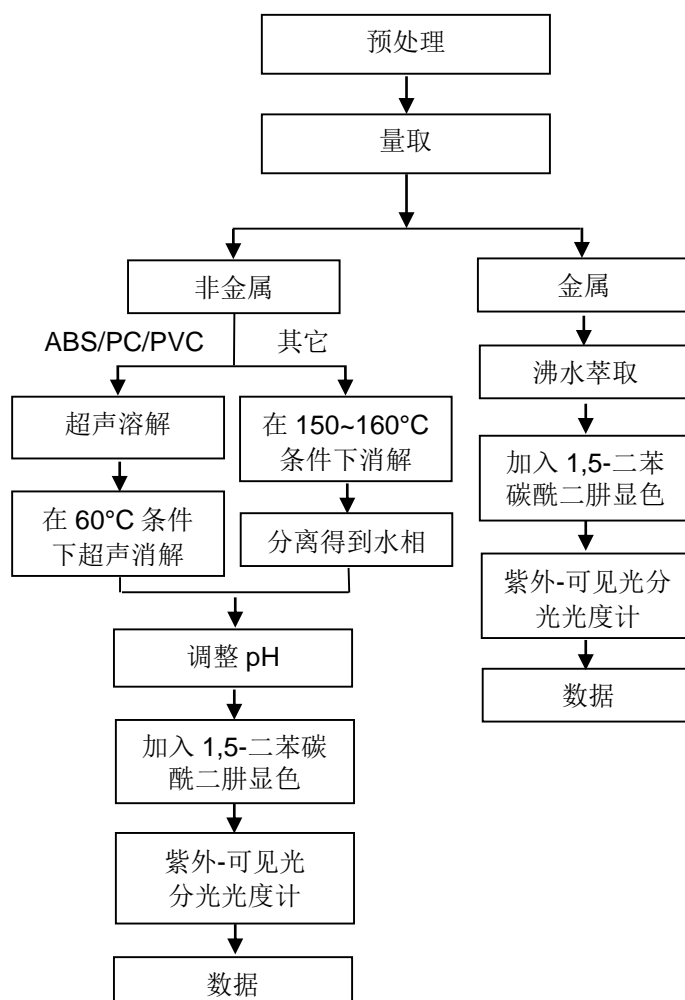
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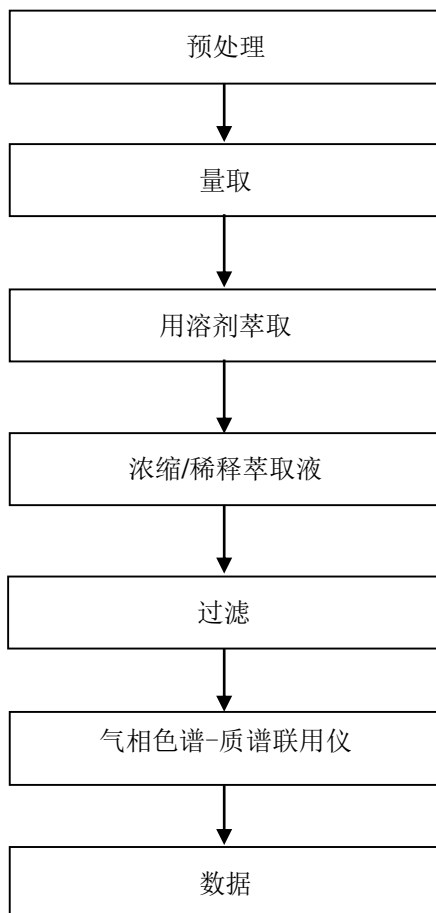
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六价铬检测流程图



PBBs/PBDEs 检测流程图



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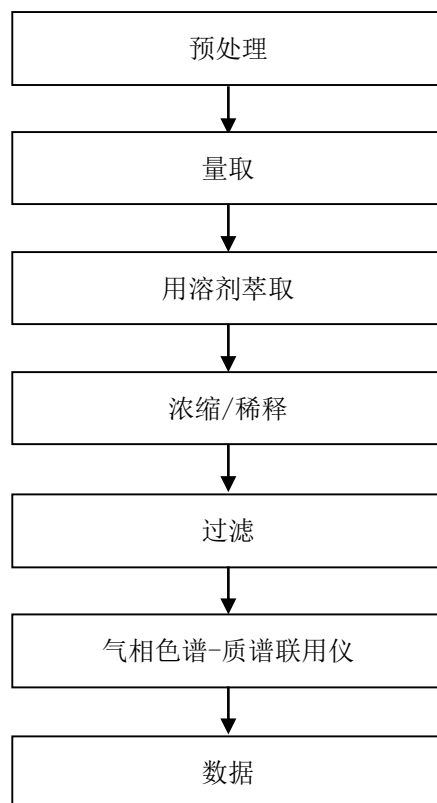
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Phthalates 检测流程图



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样品照片:



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