

检测报告

编号: SHAEC2216640812

日期: 2022年12月09日 第1页,共11页

客户名称： 國巨股份有限公司

客户地址： 231-45新北市新店寶橋路233-1號3樓

样品名称: THIN FILM CHIP RESISTOR

型号： RT series

以上样品及信息由客户提供。

SGS工作编号 : SP22-028486 - SUZ

样品接收日期： 2022年11月29日

检测周期：2022年11月29日 - 2022年12月09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

通标标准技术服务（上海）有限公司

授权签名

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95ED7AF4

Jenny Lan 兰柳珍

批准签署人



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检测报告

编号: SHAEC2216640812

日期: 2022年12月09日 第2页,共11页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	SHA22-166408.028	黑色/银色/白色 THIN FILM CHIP RESISTOR(混合测*)

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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

- 检测方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2) 参考IEC 62321-5:2013, 用AAS测定铅的含量
 - (3) 参考IEC 62321-4:2013+AMD1:2017, 用ICP-OES测定汞的含量
 - (4) 参考IEC 62321-7-2:2017, 用UV-Vis分析六价铬含量
 - (5) 参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量
 - (6) 参考IEC 62321-8:2017, 用GC-MS测定邻苯二甲酸酯的含量

检测项目	限值	单位	MDL	028
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	35
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

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<u>检测项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>028</u>
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
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。

IEC 62321系列等同于 EN 62321系列

(2) 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。

卤素

检测方法: 参照EN 14582: 2016方法 测定, 采用 IC进行分析.

<u>检测项目</u>	<u>单位</u>	<u>MDL</u>	<u>028</u>
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素

检测方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

<u>检测项目</u>	<u>单位</u>	<u>MDL</u>	<u>028</u>
锑(Sb)	mg/kg	10	ND

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*样品基于申请人要求为混合检测。报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

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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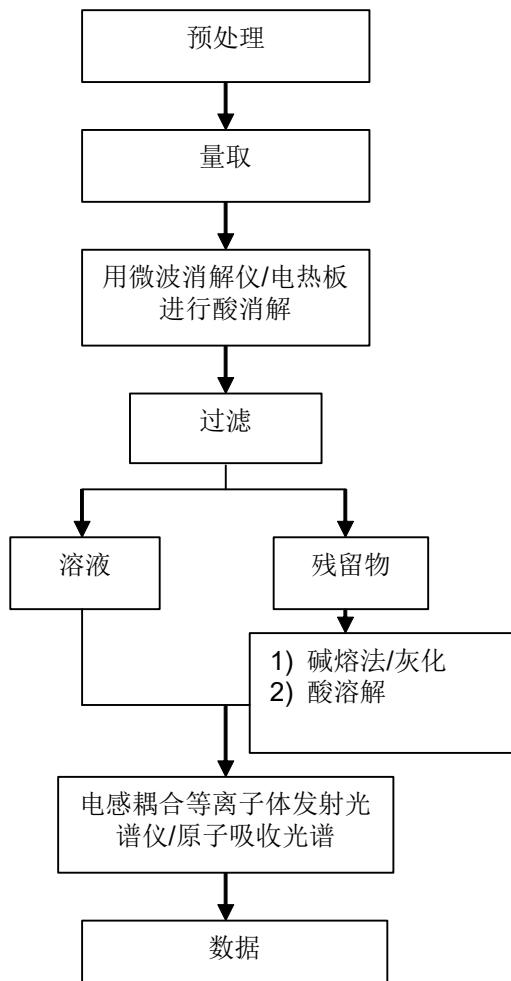
编号: SHAEC2216640812

日期: 2022年12月09日 第5页,共11页

附件

元素(IEC62321) 检测流程图

- 1) 分析人员: 金叶/宋珂静
 - 2) 项目负责人: 徐亮/张小波
 - 3) 样品按照下述流程被完全消解



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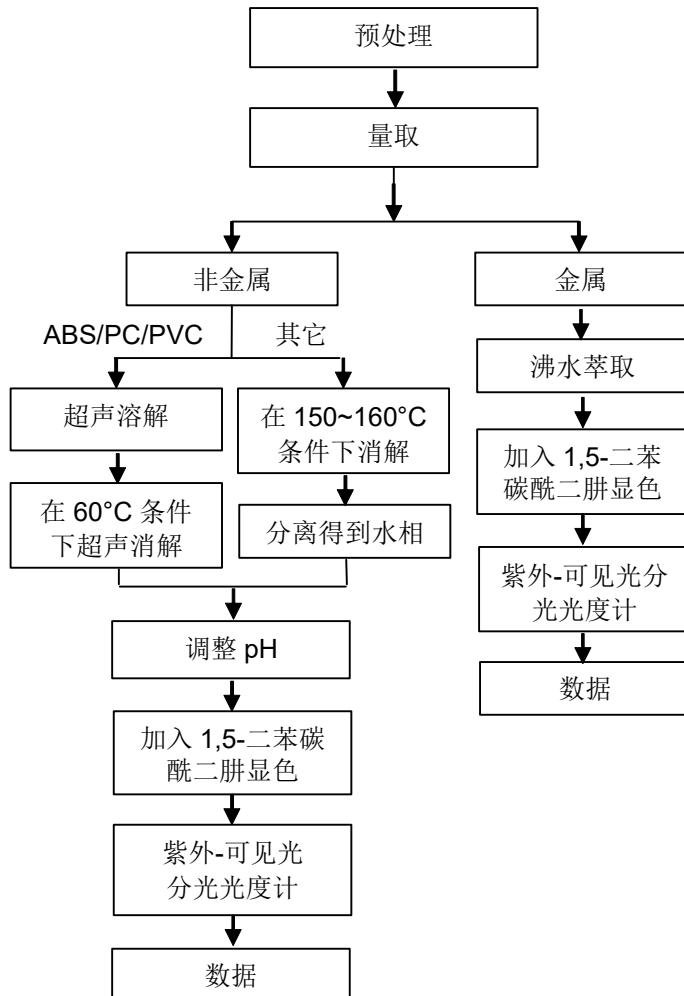
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日期: 2022年12月09日 第6页,共11页

附件

六价铬检测流程图

- 1) 分析人员: 王永旭
- 2) 项目负责人: 杨小龙



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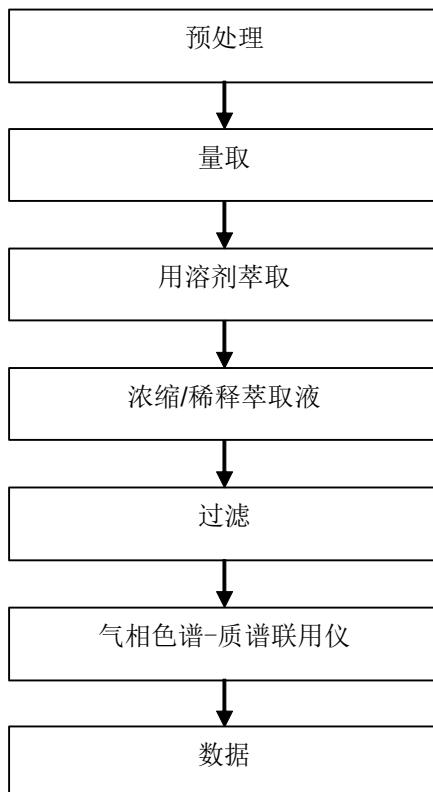
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编号: SHAEC2216640812

日期: 2022年12月09日 第7页,共11页

附件**PBBs/PBDEs 检测流程图**

- 1) 分析人员: 徐刚
- 2) 项目负责人: 张玉明



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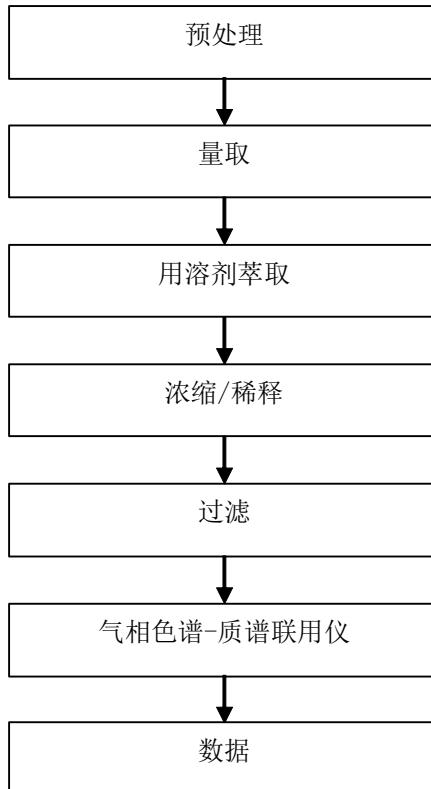
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附件

Phthalates 检测流程图

- 1) 分析人员: 韩晓春
- 2) 项目负责人: 张玉明



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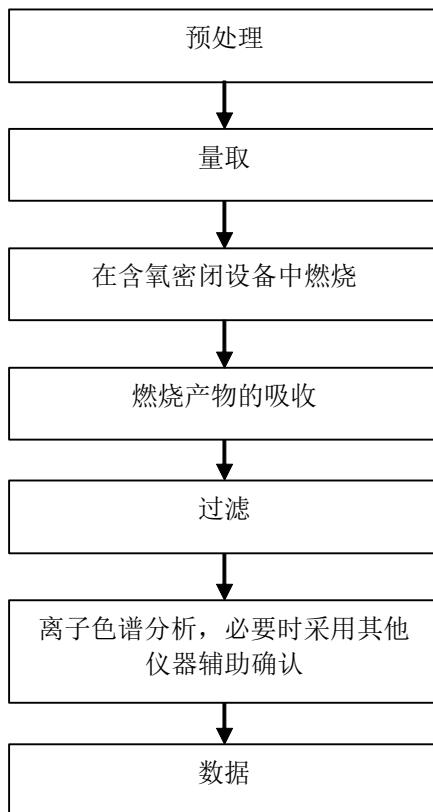
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附件**卤素检测流程图**

- 1) 分析人员: 张景群
- 2) 项目负责人: 陈俊烨



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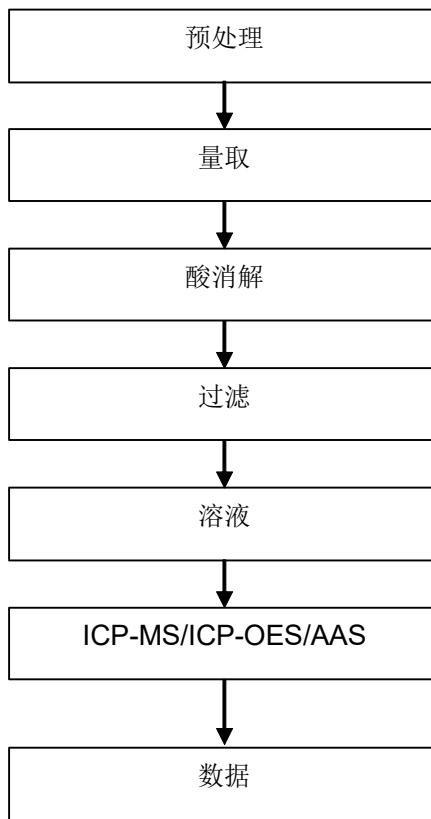
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附件**元素检测流程图**

- 1) 分析人员: 金叶/ 宋珂静
- 2) 项目负责人: 徐亮/张小波



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