

## 测试报告

No. SHAEC2103685202

日期: 2021年03月12日 第1页,共5页

江西昶龙科技有限公司  
江西省九江市柴桑区沙城工业园富园二路

以下测试之样品是由申请者所提供及确认: 晶片电阻器

SGS工作编号: SP21-005555 - SH  
 型号: 晶片电阻器  
 客户参考信息: 高压晶片电阻器  
 晶片排列电阻器  
 保险丝晶片电阻器  
 高功率晶片电阻器  
 抗硫化晶片电阻器  
 高压抗硫化晶片电阻器  
 高功率抗硫化晶片电阻器

样品接收日期: 2021年03月08日  
 测试周期: 2021年03月08日 - 2021年03月12日  
 测试要求: 根据客户要求测试  
 测试方法: 请参见下一页  
 测试结果: 请参见下一页

测试结果概要:

测试要求	结论
多环芳香烃(PAHs)	符合

通标标准技术服务(上海)有限公司  
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Carol Luo 罗萍  
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## 测试报告

No. SHAEC2103685202

日期: 2021年03月12日 第2页,共5页

测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA21-036852.001	白/黑色本体

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

### 多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2019:01 PAK方法测试, 采用 GC-MS进行分析。

测试项目	限值	单位	MDL	001
苯并(a)芘 (BaP)	1	mg/kg	0.1	ND
苯并(e)芘 (BeP)	1	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	1	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	1	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	1	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	1	mg/kg	0.1	ND
蒽 (CHR)	1	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	1	mg/kg	0.1	ND
苯并(g,h,i)花(二萘嵌苯) (BPE)	1	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	1	mg/kg	0.1	ND
菲 (PHE)	-	mg/kg	0.1	ND
芘 (PYR)	-	mg/kg	0.1	ND
蒽 (ANT)	-	mg/kg	0.1	ND
荧蒽 (FLT)	-	mg/kg	0.1	ND
4项多环芳香烃总和[菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	50	mg/kg	-	ND
萘 (NAP)	10	mg/kg	0.1	ND
15项多环芳香烃总和	50	mg/kg	-	ND
材料分类	-	-	-	3
结论				符合



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**AfPS (德国产品安全委员会): 多环芳香烃的要求**

参数 单位: mg/kg	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 <sup>a,b</sup> 使用。	不属于第 1 类, 设计意图或可预见 <sup>d</sup> 与皮肤长期接触 (超过 30 秒) 或短期重复接触 <sup>c</sup> 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)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(i)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽 (CHR), mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)花(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH之和	< 1	< 5	< 10	< 20	< 50

注释:

<sup>a</sup> 儿童是指法定年龄未满 14 周岁的人。

<sup>b</sup> 供儿童使用包括儿童的主动接触或被动接触。

<sup>c</sup> “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。

<sup>d</sup> 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:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

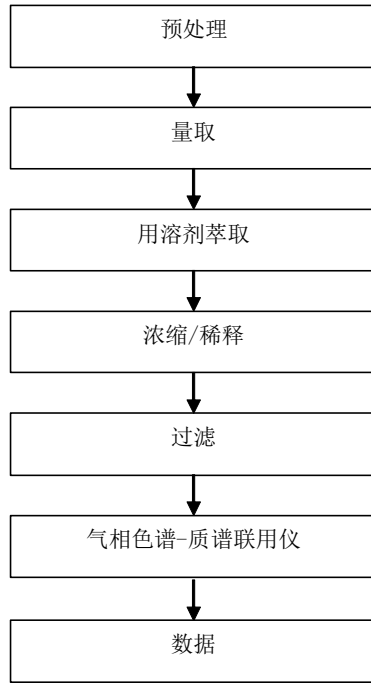
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### PAHs 测试流程图



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