

测试报告

No. SHAEC2113847802

日期: 2021年07月09日 第1页,共5页

捷捷半导体有限公司

江苏省南通市苏通科技产业园井冈山路6号

以下测试之样品是由申请者所提供及确认: SOP-8

SGS工作编号: SP21-020685 - SH

客户参考信息: TO-3P、TO-92、TO-92CR、TO-92UR、TO-92-2L、TO-220A、TO-220B、TO-220AB、TO-220C、TO-220C-2L、TO-251、TO-252、TO-220F、TO-220FP、TO-220FP-2L、TO-220HF、SOT-223、TO-247、TO-247J-2L、TO-247S、TO-247J、ITO-247、TO-247-2L、TO-262、TO-252-4R、TO-263、DO-218AB、S MTO-218Tab、DO-15、DO-27、
DO-41、SOD-123FL、SOD-123FLT、SOD-123、SMA、SMAF、SMA-W、SM B、SMC、SMBF、R6、ABS、DBS、GBJ、GBU、KBP、MBF、MBS、SGBJ、SMD-4032、SMD-3225、SMT-4、SMTF、SMT、SMTJ、SMC-3、DFN0603-2L、DFN1006、DFN1006-2L、DFN1006-3L、SOD-923、SOD-723、SOD-523、SOD-323、SOD-323F、SOT-143、SOT-23、SOT23-3L、
SOT23-5L、SOT23-6L、SOT-563、SOT-323、SOT-523、SOT-353、SOT-363、DFN2510-10L、DFN3810-9L、DFN2010-5L、DFN2010-8L、DFN1610-2L、DFN2020-2L、DFN2020-3L、DFN2626-10L、DFN4120-10L、DFN5515-18L、DFN3020-10L、DFN1610-6L、
DFN3333-2L、DFN2*2-6L、FBP-02C-A、PDFN3.3X3.3-8L、PDFN5X6-8L

样品接收日期: 2021年07月05日

测试周期: 2021年07月05日 - 2021年07月09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

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Carol Luo 罗萍
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Testing Center - Client Responsibility

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA21-138478.001	黑色本体带银色金属

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	单位	MDL	001
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘 (BeP)	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.1	ND
蒽 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯) (BPE)	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	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)]	mg/kg	-	ND
萘 (NAP)	mg/kg	0.1	ND
15项多环芳香烃总和	mg/kg	-	ND



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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 ^{a,b} 使用。	不属于第 1 类, 设计意图或可预见 ^d 与皮肤长期接触 (超过 30 秒) 或短期重复接触 ^c 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:

^a 儿童是指法定年龄未满 14 周岁的人。

^b 供儿童使用包括儿童的主动接触或被动接触。

^c “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)。

^d 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。

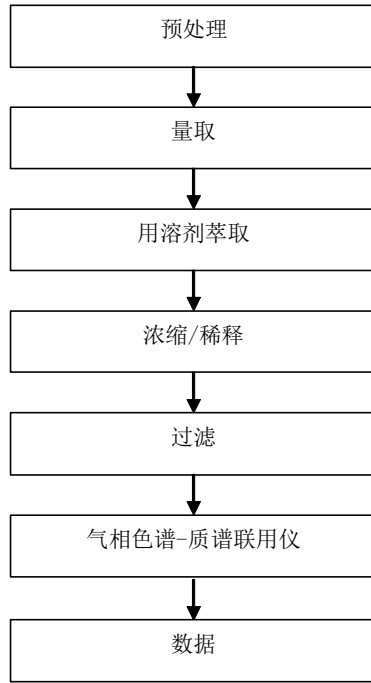
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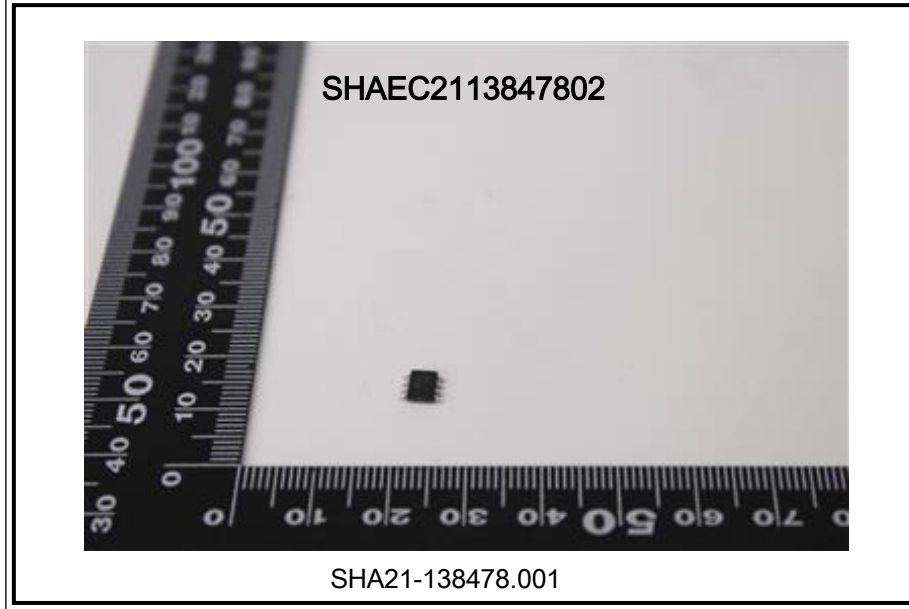
PAHs 测试流程图



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