

## 测试报告

No. CANEC2122484828

日期: 2021年12月08日 第1页,共6页

深圳琦富瑞电子有限公司

深圳市光明新区公明街道楼村社区鲤鱼河工业园振兴路5号

以下测试之样品是由申请者所提供及确认: XLPO wire and cable

SGS工作编号: CP21-063552 - SZ  
型号: UL3398 26AWG 黑色, UL3289 16AWG 白色, UL3173 18AWG 红色  
客户参考信息: 请见备注  
样品接收日期: 2021年11月30日  
测试周期: 2021年11月30日 - 2021年12月06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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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory

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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	CAN21-224848.012	黑色塑胶外皮 12A+白色塑胶外皮 12B+红色塑胶外皮 12C

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

### AfPS GS 2019:01 PAK-多环芳香烃

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

测试项目	CAS NO.	单位	MDL	012
萘 (NAP)	91-20-3	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
蒽 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽 (DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)花(二苯并(a,h)蒽) (BPE)	191-24-2	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
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 (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>e</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(j)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)	< 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)芘(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(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	
<b>15 PAH之和</b>	<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。

备注: 样品的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量, 该测试数据仅供参考。

除非另有说明, 此报告结果仅对测试的样品负责。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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### 备注:

1385、1505、1764、2679、3194、3195、3196、3199、3302、3312、3368、3376、  
3377、3385、3456、3463、3464、3564、3167、3173、3182、3236、3265、3266、  
3271、3288、HP3239、3289、3290、3295、3297、3298、3300、3301、3320、3321、  
3328、3331、3343、3344、3346、3351、3352、3386、3398、3415、3417、3423、  
3424、3435、3436、3440、3447、3448、3469、3472、3473、3485、3491、3492、  
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10368、10193、10266、1914、2951、10530、20346、3406、3613、3633、3816、  
3817、10267、QFR-10634、QFR-11092、FLR12Y、FLR13Y、QB-C、QB-D、FL2X、  
FLR2X、FLR31Y、FLU2X-A、WXC、HDPE、FL2Y、QFR-0815、QFR-125、GXL、SXL、  
TXL、SGX、GPTH、JYJ-125、JYJ-150、AEX、AESSX、H05Z-K、H07Z-K、QFR-0818、  
QFR-1011、QFR-1412、QFR-1920、WDZ-YJY、QFR-1920、JET3173、JET3266、  
MIL-W-81044-6、MIL-W-81044-12、16878-10E、16878-14B、16878-15B、16878-16C、  
QBJ-C、E-150/TX/XLPO 150V,300V,600V, CQC XLPE WIRE AND XLPE TUBE AND  
XLPE WIRE AND CABLE SERIES

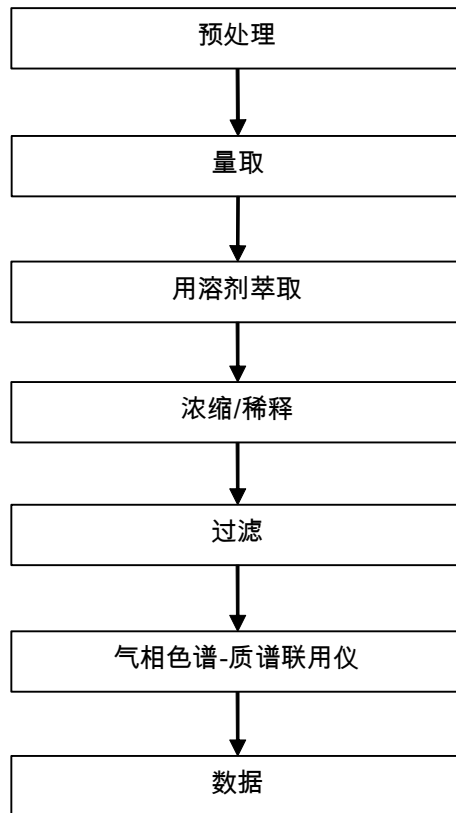


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附件

### PAHs 测试流程图



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