

检测报告

编号: CANEC25025387550

日期: 2025 年 10 月 24 日

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客户名称: 深圳琦富瑞电子有限公司
客户地址: 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

样品名称: XLPO 电线电缆
型号: UL3321 22AWG 黑色 FLR2X-A 0.35mm² 白色 UL3266 14AWG 红色
客户参考信息: 请见附件
以上样品及信息由客户提供。

SGS 工作编号: SZP25-052390
样品接收时间: 2025 年 10 月 16 日
检测周期: 2025 年 10 月 16 日 ~ 2025 年 10 月 22 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
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果

通标标准技术服务有限公司广州分公司
授权签名

史丽兰

Violet Shi 史丽兰
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	A1+A2+A3	CAN25-0253875-0002	黑色线皮 + 白色线皮 + 红色线皮

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = 方法检出限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

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

检测项目	CAS No.	单位	MDL	A1+A2+A3
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
苯并(a)蒽 (BaA)	56-55-3	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
蒽 (CHR)	218-01-9	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(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	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
4 项多环芳香烃总和[菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15 项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注:

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求

参数	1 类	2 类	3 类
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单位: mg/kg	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 e 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), 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(二苯嵌苯) (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	
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。

备注: 样品的检测是基于申请人要求混合检测, 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。

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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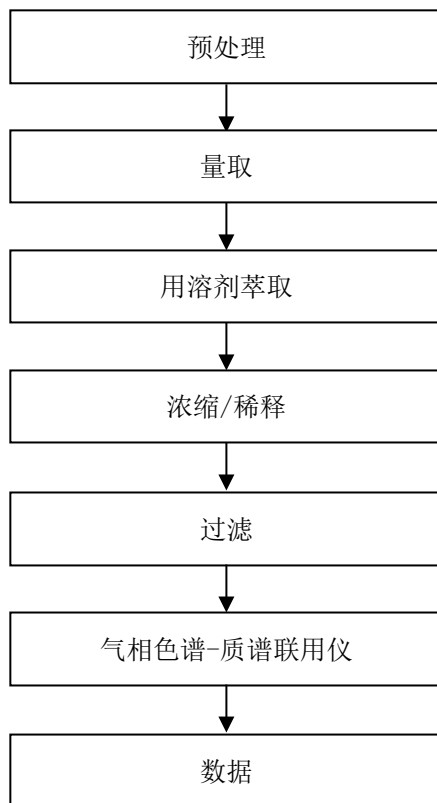
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PAHs 检测流程图



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附件:

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、3505、3569、3584、3596、3597、
3598、3599、3613、3633、3688、3691、4413、10368、10193、10266、1914、2951、
10530、20346、3406、3613、3633、3816、3817、10267、3505、RHH、XHHW、RHW-2、
SIS、XHH、XHHW、XHHW-2、QFR-10634、QFR-11092、FLR12Y、FLR13Y、QB-C、QB-D、
FL2X、FLR2X、FLR31Y、FLU2X-A、FHLR2X-B、FLR21X-A、QFR-XNY、EEHX、FHLR91X-A、
FHLR91X-B、FLR2Y-A、QCB-C、ATEEX、FLR91X-A、FLR91X-B、MIL-DTL-16878-36A (NAVY)、
WDZB-BYJR(F)、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、JET3385、JET3386、JET10368、
JET3271、MIL-W-81044-6、MIL-W-81044-12、16878-10E、16878-14B、16878-15B、16878-16C、
16878-36、QBJ-C、DCEK、CHFUS、EV、FHLR9Y、FLALR2X、T3、FL42X、E-105/T、TX、TY、
YN/XLPO 150V,300V,600V; E-125/TX、TY、YN/XLPO 150V,300V,600V; E-150/TX、
TY,TN/XLPO 150V,300V,600V; CQC XLPE wire; and Xlpe tube and XLPE wire and cable series



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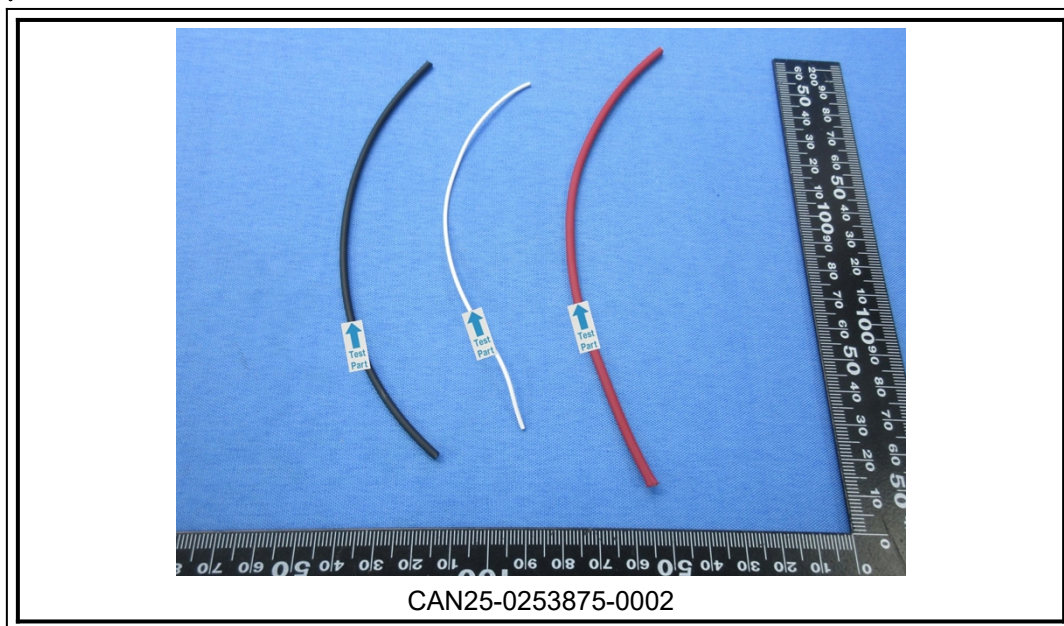
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