

## 检测报告

编号: CANEC24025204428

日期: 2024 年 11 月 26 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: PVC wire and cable  
型号: UL1569 22AWG 黑色 FLRY-A 0.5mm<sup>2</sup> 白色 UL1015 22AWG 红色  
客户参考信息: 见附页  
以上样品及信息由客户提供。

SGS 工作编号: SZP24-049571  
样品接收时间: 2024 年 11 月 12 日  
检测周期: 2024 年 11 月 12 日 ~ 2024 年 11 月 18 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

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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	CAN24-0252044-0002	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)芘(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	0.2
15 项多环芳香烃总和	-	mg/kg	-	0.2
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 <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(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	
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。

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。

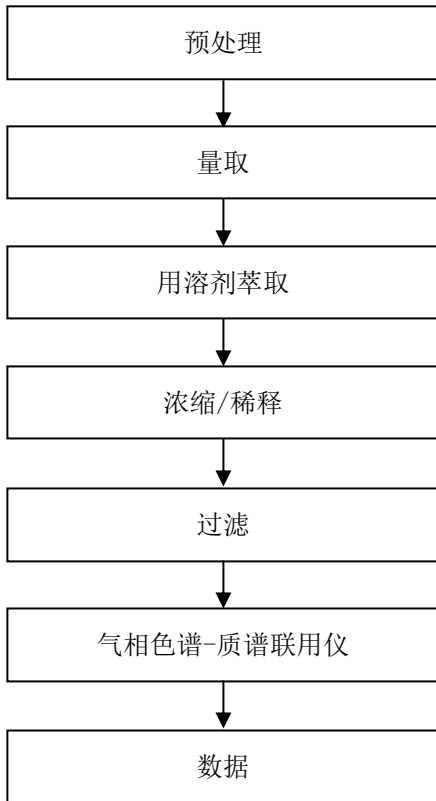
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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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### PAHs 检测流程图



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附件:

1007, 1010, 1013, 1015, 1017, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1028, 1040, 1041, 1043, 1054, 1055, 1056, 1061, 1095, 1207, 1211, 1220, 1230, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1265, 1266, 1275, 1283, 1284, 1308, 1314, 1316, 1452, 1569, 1571, 1589, 1617, 1618, 1672, 1764, 2038, 2095, 2096, 2101, 2102, 2103, 2127, 2129, 2265, 2343, 2344, 2345, 2346, 2384, 2385, 2386, 2387, 2388, 2448, 2463, 2464, 2468, 2490, 2493, 2501, 2502, 2516, 2517, 2532, 2550, 2560, 2569, 2570, 2571, 2574, 2576, 2584, 2586, 2587, 2589, 2598, 2614, 2626, 2630, 2631, 2637, 2651, 2653, 2654, 2655, 2656, 2660, 2661, 2662, 2668, 2679, 2704, 2709, 2722, 2726, 2733, QFR, 2754, 2919, 2990, 3463, 3482, 10024, 10053, 10070, 10076, 10198, 10269, 20276, 20293, 20294, 20295, 20478, 20480, 20482, 21014, 1429, 1430, 1431, 3314, 3315, 3443, 3453, 3454, 3558, 3611, 10093, 10097, 10183, 10271, 1032, 10346, 10347, 11627, MTW/TEW1015, 60227IEC01(BV), 60227IEC02(RV), 60227IEC05(BV), 60227IEC06(RV), 60227IEC08(RV-90), VDE WIRE, QB-A, QB-B, AVR, HDT, STT, SGT, GPT, TWP, FLRY, FLY, FLRYW, FLRX, FLR9Y, FLRW, MIL-W-76, 16878/1C, 16878/2C, 16878/3C, 16878/17B, AV, BVR, AVS, AVSS, AVSX, AVSSH, CAV, CAVS, CAVUS, EB, HEB, HEBX, HDEB, AVXS, AVX, AVFX, EBX, AVF, QVR, GB.AV.300/300V, GB.RVS.300/300V, TVSSX, MTW, MTW/TEW1015, H05V-K, H07V-K, E-80/T,TX,TY,TN/PVC 150V,300V, 600VFLALYW, R2, 60227 IEC 52 (RVV), 60227 IEC 53 (RVV), FLUY, FLUY, FHLRY, FLY-B, TW, THHN, THW, THW-2, THHW, THWN, THWN-2, TWE-105/T,TX,TY,TN/PVC 150V,300V,600V, EBB-80/T,TX/PVC 150V, CQC PVC wire and PVC TUBE



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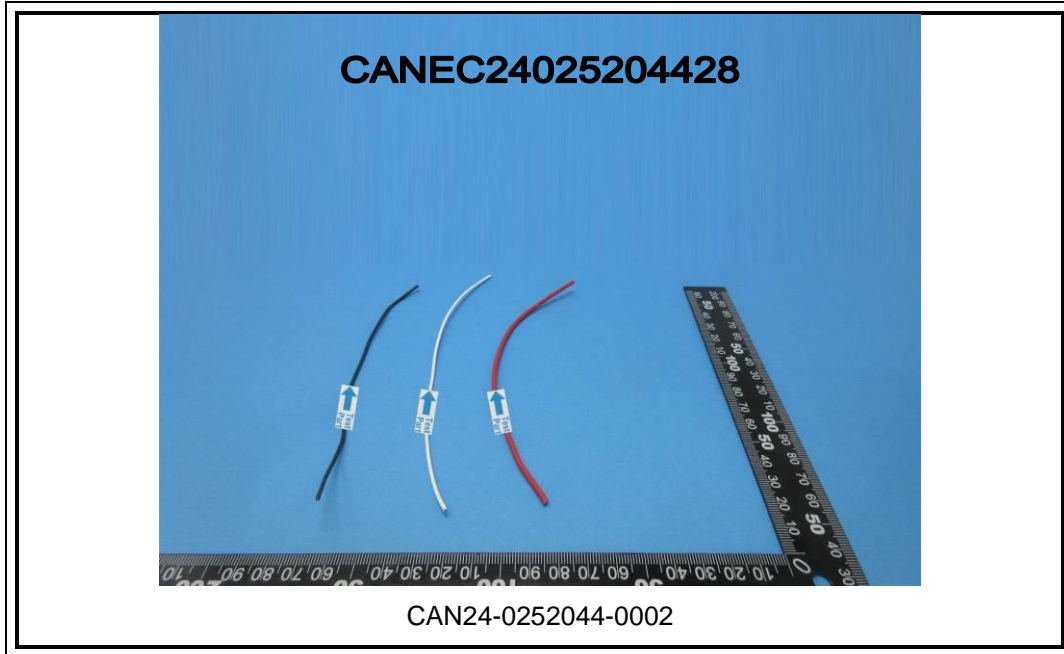
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