



检测报告

TEST REPORT

编号 (No.) : UTS18060197R

报告日期 (Report Date) : 2018/07/11

委托单位/Client : 中良通信科技(苏州)有限公司
ZhongLiang Communication Technology Ltd.
地 址/Address : 苏州市相城区望亭镇新华路 68 号
Xinhua Industrial Park, Wangting Town, Suzhou, Jiangsu Province, China

以下测试样品由申请人提供及确认:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称/Sample Name : 光纤槽道及配件

样品信息/Sample Information : 规格/Spec.: 宽/Wide*高/High
(50*50 mm
100*100 mm
120*100 mm
150*100 mm
240*100 mm
300*100 mm
340*100 mm
360*100 mm)
样品材质/Material: PVC 通用塑料

测试数量/Test Quantity : 1 PC

接收日期/Receiving Date : 2018/06/26

检测周期/Test Period : 2018/06/26-2018/07/11

检测要求/Test Request : 参见下一页/Please refer to next page(s).

检测方法/Test Method(s) : 参见下一页/Please refer to next page(s).

检测结果/Test Result(s) : 参见下一页/Please refer to next page(s).



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检测环境/Test Environment:

环境温度/Ambient Temperature: (23±2)°C

环境湿度/Ambient Humidity: (55±10)%RH

检测设备/Test Equipment:

设备名称 Name of Test Equipment	设备编号 Equipment No.	校准/Calibration	
		上次校准/Last Cal.	预计校准/Due Cal.
汽车内饰件燃烧试验机/Car Inner Decoration Combustion Testing Machine	F-1-006	2018/01/26	2019/01/25
恒温恒湿试验箱/Temperature & humidity test chamber	R-1-039	2018/01/09	2019/01/08
恒温恒湿试验箱/Temperature & humidity test chamber	R-1-088	2018/01/09	2019/01/08
高温老化试验箱/Burn-in Chamber	R-1-017	2018/01/09	2019/01/08
绝缘电阻测试仪/Insulation resistance tester	R-1-043	2018/01/09	2019/01/08
振动试验系统/Vibration testing system	R-1-068	2018/01/09	2019/01/08
数显卡尺/Digital Caliper	M-1-027	2018/01/09	2019/01/08
傅立叶红外分析仪/Fourier infrared analyzer	Nicolet	2017/11/10	2018/11/09

检测结果/Test Result(s):

1. 外观/Appearance

检测方法/Test Method: Q/320507 TDB01-2011 4.3

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
样品表面应平整、光滑、洁净、无明显凹凸现象，无飞边、暗泡、收缩、凹陷或机械损伤等缺陷； $\Delta E < 2$ 。 /The surface of the sample should be flat, smooth, clean, no obvious bump phenomenon, no flash, dark bubble, shrink, sag or mechanical damage and other defects.	样品表面应平整、光滑、洁净、无明显凹凸现象，无飞边、暗泡、收缩、凹陷或机械损伤等缺陷。 /The surface of the sample should be flat, smooth, clean, no obvious bump phenomenon, no flash, dark bubble, shrink, sag or mechanical damage and other defects. L=74.80; a=13.03; b=69.60	符合/PASS



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2. 尺寸/Size

检测方法/Test Method: Q/320507 TDB01-2011 4.4

客户要求 /Customer Requirement		检测结果 /Test Results					结论 /Conclusion
壁厚/Walk thickness	3(1±5%)mm	2.90	3.0	3.07	3.06	3.11	符合/PASS
长度/Length	380(1±0.15%) mm	498	497	498	501	410	符合/PASS
曲率半径/Radius of curvature	≥ 40 mm	40 mm					符合/PASS

3. 挠度的最大变形量/Maximum amount of deformation of the deflection

检测方法/Test Method: Q/320507 TDB01-2011 4.6

支持跨距/Span: 1.5 m; 额定载荷/Rated load: 350 N。

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
≤ 10 mm	6 mm	符合/PASS

4. 撞击/Impact

检测方法/Test Method: Q/320507 TDB01-2011 4.7

光纤槽经 1 kg 重物, 从 1000 mm 高度垂直跌落撞击。/Fiber groove withstand 1 kg weights, from 1000 mm high degree of vertical drop impact.

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
无裂痕或脆断现象。 /No cracks or brittle fracture phenomenon emerged on the surface of sample.	试验后, 无裂痕或脆断现象。 /After the test, no cracks or brittle fracture phenomenon emerged on the surface of sample.	符合/PASS



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5. 承重试验/Bearing Test

检测方法/Test Method: Q/320507 TDB01-2011 4.8

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
光纤槽应能承受 800 N 的静载荷, 无裂痕或脆断现象。/The fiber groove should be able to withstand 800 N of static load, no cracks or brittle fracture phenomenon.	承受 800 N 静载荷, 无裂痕或脆断现象。 /Under 800 N loading, no cracks or brittle fracture phenomenon emerged on the surface of sample.	符合/PASS

6. 电气性能/Electrical Performance

检测方法/Test Method: Q/320507 TDB01-2011 4.9

6.1 抗电强度/Dielectric Strength

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
恒定湿热试验前: AC4200V、50 Hz, 1 min 无闪烁或击穿现象。/Before damp heat test: AC4200V, 50 Hz, 1 min no flicker or breakdown.	恒定湿热试验前: AC4200V、50Hz 1min 无闪烁或击穿现象。/Before damp heat test: AC4200V、50Hz 1min no flicker or breakdown.	符合/PASS
恒定湿热试验后: AC4200V、50 Hz, 1 min 无闪烁或击穿现象。/After damp heat test: AC4200V, 50 Hz, 1 min no flicker or breakdown.	恒定湿热试验后: AC4200V、50Hz 1min 无闪烁或击穿现象。/after damp heat test: AC4200V、50Hz 1min no flicker or breakdown.	符合/PASS

6.2 绝缘电阻/Insulation Resistance

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
恒定湿热试验前/Before damp heat test: $\geq 20 \text{ M}\Omega$	恒定湿热试验前: $\geq 20 \text{ M}\Omega$ / Before damp heat test: $\geq 20 \text{ M}\Omega$	符合/PASS
恒定湿热试验后/After damp heat test: $\geq 5 \text{ M}\Omega$	恒定湿热试验后: $\geq 5 \text{ M}\Omega$ /after damp heat test: $\geq 5 \text{ M}\Omega$	符合/PASS



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7. 燃烧试验/Flame Test

样品处理/Conditioning:

23±2°C, 50±5%RH的环境中处理48h。 / 23±2°C and 50±5 %, RH for 48 hours.

检测方法/Test Method: GB/T 2408-2008 《塑料 燃烧性能的测定 水平法和垂直法》 /Plastics - Determination of burning characteristics - Horizontal and vertical test

试验方法/Procedure:

将火焰移到样品的底部10±1 mm处, 停留10±0.5s, 然后将火焰移开, 在移开试验火焰后, 测量任一样品上火焰燃烧的持续时间t₁。 /Apply the flame centrally to the middle point of the bottom edge of the specimen so that the top of the burner is 10±1 mm below that point of the lower end of the specimen, and maintain it at that distance for 10±0.5 seconds, immediately withdraw the burner and simultaneously commence measurement of the after flame time t₁.

样品上的火焰燃烧一经停止后, 应立即在同一样品上施加火焰, 火焰距离残余样品底部10±1 mm, 停留10±0.5s, 然后将火焰移开, 在移开试验火焰后, 测量任一样品上火焰燃烧的持续时间t₂, 并在t₂结束后测量余燃的持续时间t₃。 / As soon as after flaming of the specimen ceases, place the burner again under the specimen and maintain the burner at a distance of 10±1 mm from the remaining major portion of the specimen for an additional 10±0.5 seconds, after this application of the flame to the specimen, immediately remove the burner and simultaneously commence measurement of the after flame time, t₂, and the afterglow time, t₃.

在每一组剩余的四个样品上应重复进行上述一系列规定的试验。 /Repeat the test to the remaining four specimens.

试验数据/Test Data:

	t ₁ (s)	t ₂ (s)	t ₃ (s)	Σ(t ₁ +t ₂)(s)	t ₂ +t ₃ (s)	燃烧至夹持处 Burnout up to the holding clamp	是否引燃脱脂棉 Ignite cotton or not
1#	0	0	0	0	0	否/No	否/No
2#	0	0	0		0	否/No	否/No
3#	0	0	0		0	否/No	否/No
4#	0	0	0		0	否/No	否/No
5#	0	0	0		0	否/No	否/No
结果/Result	V-0 级/V-0 Grade						
客户要求/Customer requirement	V-0 级/V-0 Grade						
结论/Conclusion	符合/PASS						



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等级判据/Classifications:

标准/Criteria	V-0	V-1	V-2
每个独立的样品燃烧持续的时间, t_1 或 t_2 / After flame time for each individual specimen t_1 or t_2 ,	$\leq 10s$	$\leq 30s$	$\leq 30s$
对任意处理组的五个样品的总的燃烧持续时间, $\Sigma(t_1+t_2)$ / Total after flame time for any condition set, $\Sigma(t_1+t_2)$,	$\leq 50s$	$\leq 250s$	$\leq 250s$
在第二次火焰施加后, 每个独立的样品燃烧持续时间和灼热燃烧时间, t_2+t_3 / After flame plus afterglow time for each individual specimen after the second flame application, t_2+t_3 ,	$\leq 30s$	$\leq 60s$	$\leq 60s$
是否允许任一样品持续燃烧和灼热燃烧到夹持样品的夹持处? / After flame or afterglow of any specimen up to the holding clamp?	否/No	否/No	否/No
是否允许燃烧颗粒或滴落物引燃脱脂棉? / Cotton indicator ignited by flaming particles or drops?	否/No	否/No	是/Yes

8. 耐高温性能/High Temperature Performance

检测方法/Test Method: Q/320507 TDB01-2011 4.11.1

检测条件/Test Condition: $(55\pm 2)^\circ\text{C}$, 2 h.

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
无明显的变形、变色等缺陷。/No obvious deformation, discoloration and other defects.	$(55\pm 2)^\circ\text{C}$ 、2h 耐高温性试验后, 试样无明显的变形、变色等缺陷。/ $(55 \pm 2)^\circ\text{C}$, after 2 hours of high temperature test, sample not have a obvious deformation, discoloration, and other defects.	符合/PASS

9. 耐低温性能/Low Temperature Performance

检测方法/Test Method: Q/320507 TDB01-2011 4.11.2

检测条件/Test Condition: $(-25\pm 2)^\circ\text{C}$, 2 h.

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
无明显的变形、变色等缺陷。/No obvious deformation, discoloration and other defects.	$(-25\pm 2)^\circ\text{C}$ 、2h 耐低温性试验后, 试样无明显的变形、变色、裂纹等缺陷。/ $(-25 \pm 2)^\circ\text{C}$, after 2 hours of low temperature test sample no obvious deformation, discoloration, crack and other defects.	符合/PASS



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10. 耐高温高湿性能/Temperature and Humidity Performance

检测方法/Test Method: Q/320507 TDB01-2011 4.11.3

检测条件/Test Condition: (30±2)°C, 85%RH, 48 h.

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
样品外观不应出现异常, 其内外表面之间的绝缘电阻不小于 5 MΩ。/the appearance of samples should not be abnormal, the insulation resistance between its inner and outer surface is not less than 5 MΩ.	(30±2)°C、RH 85%、48h 湿热试验后, 试样外观没有出现异常, 其内外表面之间的绝缘电阻不小于 5MΩ。/(30±2)°C、RH 85% after 48 hours damp heat test. the appearance of the sample not be abnormal, the insulation resistance between its inner and outer surfaces is not less than 5MΩ.	符合/PASS

11. 振动试验/Vibration Test

检测方法/Test Method: Q/320507 TDB01-2011 4.11.4

检测条件/Test Condition:

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
样品完整、表面及零部件不应有机械性损伤, 紧固件不应松脱。/the sample should be complete, the surface and parts should not be mechanical injury, fasteners should not be loose.	根据 GB/T 3873 中“A10 公路运输”的试验要求, 试验结束后: 产品完整、表面及零部件没有机械性损伤, 紧固件无松脱。/ According to the testing requirements of GB / T 3873 in the A10 road transport ", after the test: the sample complete, the surface and parts not be mechanical injury, fasteners not be loose.	符合/PASS

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12. 老化/Aging

检测方法/Test Method: Q/320507 TDB01-2011 4.12

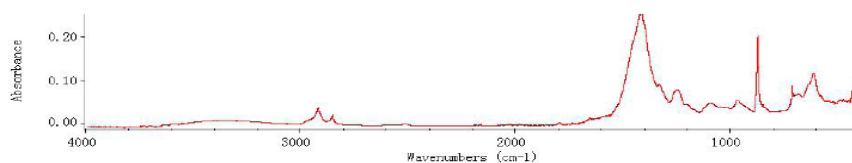
检测条件/Test Condition: (55±2)°C, 240 h; 室温/R.T., 4 h; (-25±2)°C, 2 h。

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
无裂痕或脆断现象。 /No cracks or brittle fracture phenomenon emerged on the surface of sample.	将试样置于高温箱内, 在(55±2)°C温度下保持 240h, 取出后, 在室温下冷却 4h, 然后再放入(-25±2)°C低温箱内保持 2h。取出后立即进行冲击试验, 无裂痕或脆断现象。 / The sample is placed in the high temperature chamber (55 ± 2)°C temperature for 240h, after removing cooled at room temperature for 4h, then put (-25 ± 2)°C low temperature inside to keep 2h. Removed immediately after the impact test, no cracks or brittle fracture phenomenon.	符合/PASS

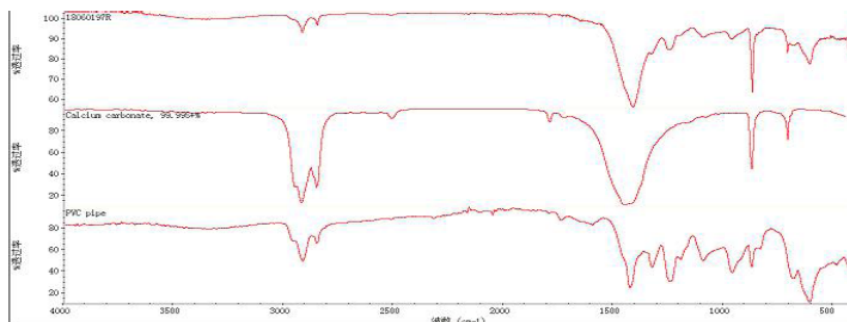
13. 材质分析/Material Composition

客户要求 /Customer Requirement	检测结果 /Test Results	结论 /Conclusion
主含量为 PVC /The main content for PVC	样品红外匹配为: PVC+碳酸钙 Sample infrared matching is: PVC+CaCO ₃	符合/PASS

红外谱图:



红外匹配图:



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样品照片/Sample Photo(s):



图 1 试验前
Fig.1 Before the test

.....报告结束/End of Report.....