检 测 报 告
TEST REPORT

编号（No.）:UTS17050115R03　　报告日期（Report Date）: 2017/05/19

委托单位/Client　：苏州凡创电子科技有限公司
Fan Chuang Electronic Technolog Co.Led

地　　址/Address　：苏州市工业园区九江路2号
No. 2 Jiujiang Road, Suzhou Industrial Park,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：PC(80%)+ABS(20%)工程塑料
测试数量/Test Quantity	:	1 PC
接收日期/Receiving Date	:	2017/05/05
检测周期/Test Period	:	2017/05/05-2017/05/18
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).

签　　发 Approved by　刘贵宁　授权签字人

审　　核 Reviewed by　肖利

检　　测 Tested by　陈林

江苏省优联检测技术服务有限公司
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检测环境/Test Environment:

环境温度/Ambient Temperature:　(23±2)℃

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	2017/02/24	2018/02/23
恒温恒湿试验箱 /Temperature & humidity test chamber	R-1-039	2017/01/12	2018/01/11
恒温恒湿试验箱 /Temperature & humidity test chamber	R-1-088	2017/02/20	2018/02/19
高温老化试验箱 /Burn-in Chamber	R-1-017	2017/02/20	2018/02/19
绝缘电阻测试仪 /Insulation resistance tester	R-1-043	2017/02/20	2018/02/19
振动试验系统 /Vibration testing system	R-1-068	2017/02/20	2018/02/19
数显卡尺 /Digital Caliper	M-1-027	2017/02/20	2018/02/19

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；ΔE< 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=75.01; a=14.83; b=78.95	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	2.8 mm	符合/PASS
长度/Length	380(1±0.15%) mm	378 mm	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	7 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: ≥ 20 MΩ	恒定湿热试验前：≥20MΩ / Before damp heat test: ≥20MΩ	符合/PASS
恒定湿热试验后/After damp heat test: ≥ 5 MΩ	恒定湿热试验后：≥5MΩ /after damp heat test: ≥5MΩ	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℃ 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:

将灯焰移到样品的底部10±1 mm处，停留10±0.5s，然后立即将灯焰移开，在移开试验火焰后，测量任一样品上火焰燃烧的持续时间t_1。/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 t_1.

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，灯焰距离残余样品底部10±1 mm，停留10±0.5s，然后立即将灯焰移开，在移开试验火焰后，测量任一样品上火焰燃烧的持续时间t_2，并在t_2结束后测量余燃的持续时间t_3。/ 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, t_2 , and the afterglow time, t_3.

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)	$\Sigma(t_1+t_2)$(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#	1	1	0	10	1	否/No	否/No
2#	1	1	0		1	否/No	否/No
3#	1	1	0		1	否/No	否/No
4#	1	1	0		1	否/No	否/No
5#	1	1	0		1	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,	≤10s	≤30s	≤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, $\Sigma(t_1+t_2)$,	≤50s	≤250s	≤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,$t_2+ t_3$,	≤30s	≤60s	≤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±2)℃，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±2)℃、2h 耐高温性试验后，试样无明显的变形、变色等缺陷。/(55 ± 2)℃, 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±2)℃，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±2)℃、2h 耐低温性试验后，试样无明显的变形、变色、裂纹等缺陷。/(-25 ± 2)℃, 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)℃，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)℃、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)℃、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

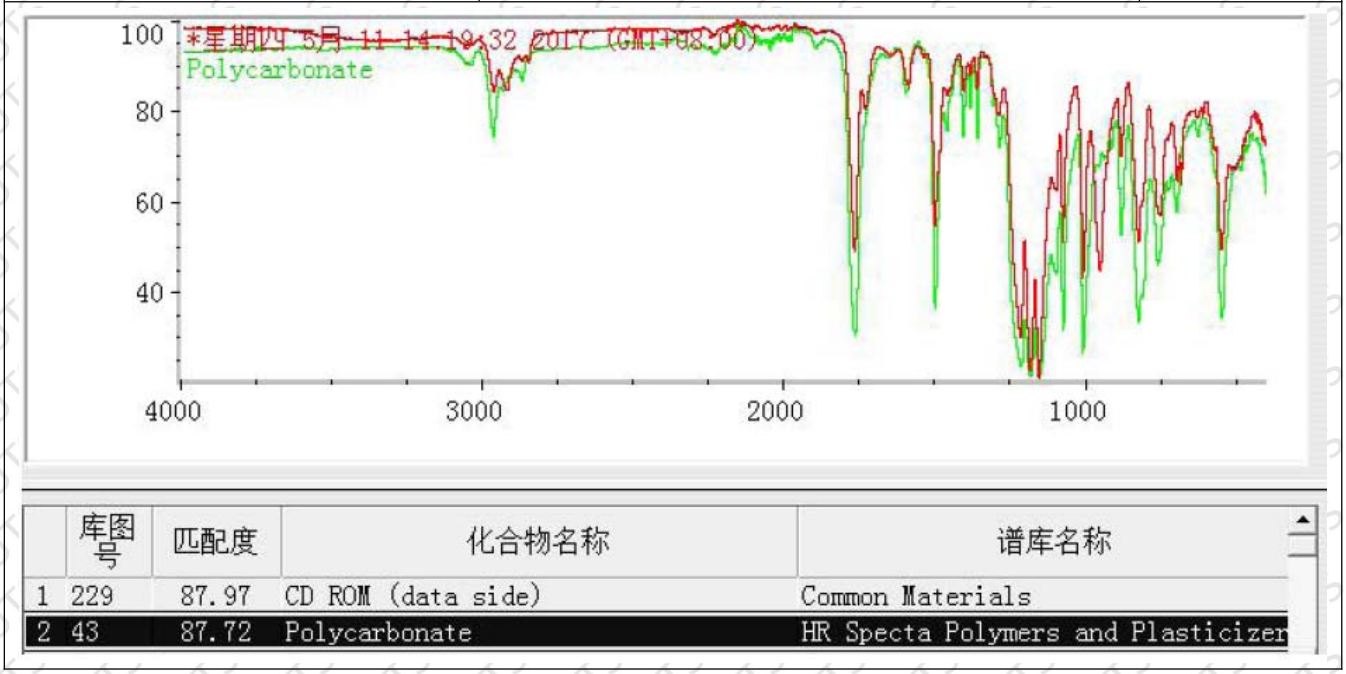
检测方法/Test Method：Q/320507 TDB01-2011 4.12

检测条件/Test Condition：(55±2)℃，240 h；室温/R.T.，4 h；(-25±2)℃,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)℃温度下保持 240h，取出后，在室温下冷却 4h，然后再放入(-25±2)℃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)℃temperature for 240h, after removing cooled at room temperature for 4h, then put (-25 ± 2)℃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 PC /The main content for PC	聚碳酸酯(PC)，87%(匹配度) /Polycarbonate	符合/PASS



	库图号	匹配度	化合物名称	谱库名称
1	229	87.97	CD ROM (data side)	Common Materials
2	43	87.72	Polycarbonate	HR Specta Polymers and Plasticizer

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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……

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