

## REPORT No.: R2DG16070511422A

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Dongguan Yunze Garment Accessories Co., Ltd 东莞市韵泽服装辅料有限公司 Junli Industrial Park, Bajiaowo, Wanjiang, Dongguan, Guangdong 广东省东莞市万江区拔蛟窝社区骏利工业园

Report on the submitted samples said to be: 委托检测的样品及申请者对样品的说明如下:

Sample Name 样品名称 Sample Description 样品描述 Style/Item No. 型号	: : :	TPU ELASTIC TAPE TPU 弹力带 Clothing shape material /elastic tape 服装定型材质/弹力带 HD 6012S&5012S
Product application scope 产品适用范围 Color 颜色		MEN & WOMEN 男&女 TRANSPARENT 透明
Country of Origin 原产地 Product End Use		China 中国
产品最终用途 Sample Receiving Date 收样日期	:	服装定型 July 6, 2016 2016 年 7 月 6 日
Testing Period 测试周期 Results 测试结果		From July 6, 2016 to August 12, 2016 2016 年 7 月 6 日至 2016 年 8 月 12 日 Please refer to next page(s). 参见后续页

Signed for and on behalf of BACL(BACL 授权签名)

Checked by 审核: Bing Yu Test technician 技术员

Approved by 核准:

Haidi Yin Physical Manager 物理测试经理

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	<u>ST REQUEST</u> <u>式要求</u>	<u>CONCLUSION</u> <u>结论</u>
A	Dimensional Stability to Washing 水洗尺寸稳定性	Pass 合格
В	Dimensional Stability to Ironing 熨烫尺寸稳定性	Data 数据
С	Tensile Strength 断裂强力	Data 数据
D	Percentage Elongation at Break 断裂伸长率	Data 数据
Е	Discoloration from Ultraviolet (UV) and Heat Exposure of Light-Colored Surfaces 受热及紫外线辐射引起的浅色表面变色测试	Pass 合格
F	Discoloration from Ultraviolet (UV) or UV/Visible Radiation and Heat Exposure of Light-Colored Surfaces 浅颜色表面的紫外线(UV)或紫外/可见光辐射及热暴露变色	Pass 合格
G	Aging Test 老化测试	Pass 合格
Н	Phenolic Yellowing 耐酚黄变色牢度	Pass 合格
I	Resistance of Elastics to Repeated Extension 松紧带往复拉伸测试	Pass 合格
J	Stretch and Recovery Test 回复性测试	Data 数据
Pas	s= Meet the Requirement of Client	

合格 = 符合客户要求

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Results: 测试结果:

<u>Tested part(s):</u> 测试部位:

(1) Transparent TPU elastic tape(6012S) 透明 TPU 弹力带(6012S)

(2) Transparent TPU elastic tape(5012S) 透明 TPU 弹力带(5012S)

Wash at 27℃(80°F), Tumb	to Washing (AATCC 135-2015, Test No.(1) II A(ii),Machine le dry delicate at 60±6℃(140±10℃)) C 135-2015,试验编号(1) II A(ii),机洗温度 27℃(80℃), 60±6℃	Client's Requirement
	(1) After 3 Washes (%) 洗 3 次后 (%)	
<b>Length</b> 长度方向	-0.8	-5.0%~+5.0%
Conclusion 结论	Pass 合格	1

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<b>B、Dimensional Stability to Ironi</b> <b>熨烫尺寸稳定性(BACL</b> 内部方法)		od, Cool Ironing)	Client's Requirement 客户要求
	(1)		
Method A:Dry ironing 方法 A: 干熨烫			
Length (%) 长度方向(%)	- 3.7	,	
Method B:Spray ironing 方法 B: 喷雾熨烫			
<b>Length (%)</b> 长度方向 <b>(%)</b>	- 2.9	)	
Conclusion			
结论			1
Note:			
注: (-)Shrinkage (+) Extension (-)收缩 (+)延长			
C、Tensile Strength (CRE Tensile Method, the Distance Between the Jaw separation 50mm,Speed 100 mm/min) 断裂强力 (CRE 拉力法,夹距大约 50mm,拉伸速度 100 mm/min)			Client's Requirement 客户要求
	(1)	(2)	
	27.2 N/mm <sup>2</sup>	28.2 N/mm <sup>2</sup>	
Conclusion 结论			1
D、Percentage Elongation at Break (CRE Tensile Method, the Distance Between the Jaw separation 50mm,Speed 100 mm/min) 断裂伸长率 (CRE 拉力法,夹距大约 50mm,拉伸速度 100 mm/min) 客户要求			
	(1)	(2)	
	429.1%	486.9%	
Conclusion 结论			1
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<ul> <li>E、Discoloration from Ultraviolet (UV) an (ASTM D 1148-1995, 300W Ultra-Vitalux 50℃)</li> <li>受热及紫外线辐射引起的浅色表面变色测 间: 24 小时,温度:50℃)</li> </ul>	Client's Requirement 客户要求		
Discoloration Degree(Grade)	(1) 4.0	≥4.0	
变色等级(级) Conclusion 结论	4.0 Pass 合格	2 4 .0 /	
Light-Colored Surfaces (ASTM D 1148 Temperature: 50℃)	UV/Visible Radiation and Heat Exposure of 8-2013, 300 W, Exposure Time:12 Hours, 露下浅颜色表面的变色(ASTM D 1148-2013,	Client's Requirement 客户要求	
Discoloration Degree(Grade) 变色等级(级)	(1) 4.5	≥ 4.0	
Conclusion 结论	Pass 合格	1	
<b>G、Aging Test</b> (ASTM D 573-2004(2015), 老化测试(ASTM D 573-2004(2015),修正	Client's Requirement 客户要求		
Appearance Change 外观变化	(1) No obvious change of surface 无明显变化	No obvious change of surface 无明显变化	
Color Change(Grade) 变色(级)	4.5	≥4.0	
Dimension Change 尺寸变化	2.0%	Dimension change ≤ 3% 尺寸变化≤ 3%	
Conclusion 结论	Pass 合格	1	
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	l <b>ic Yellowing</b> (ISO 105 X18:2007, 50 °C for 16 变色牢度(ISO 105 X18:2007, 50 °C,16 小时)	Hours)	Client's Requirement 客户要求
	(1)	)	
Color Stain 沾色	4-5	5	≥4
Conclusio 结论	n Pas Article Pas 合格	-	1
色牢度总不	stness Total Uncertainty: ±0.5 Grade 确定度:±0.5 级 stness Rating Negligible/No Change or Staining 可忽略或无颜色转移 Color Change or Staining Equivalent to Gray S 变色/沾色程度与灰尺 4 级等同 Color Change or Staining Equivalent to Gray S 变色/沾色程度与灰尺 3 级等同 Color Change or Staining Equivalent to Gray S 变色/沾色程度与灰尺 2 级等同 Color Change or Staining Equivalent to Gray S 变色/沾色程度与灰尺 2 级等同	Scale Step 3. Scale Step 2.	
12			

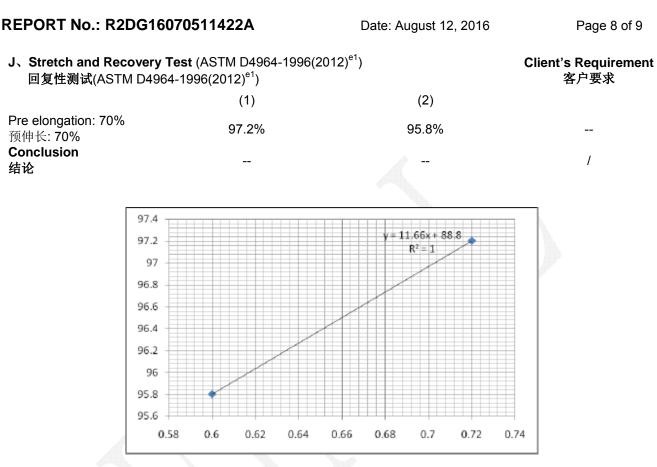
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#### REPORT No.: R2DG16070511422A Date: August 12, 2016 Page 7 of 9 **Client's Requirement** I. Resistance of Elastics to Repeated Extension (SATRA TM103:1992, Modified) 松紧带往复拉伸测试(SATRA TM103:1992,修正) 客户要求 (1) Sample Length: 20mm, Displacement Distance: 60mm 样品长度: 20mm, 位移距离: 60mm No damage after 10000 cycles After 10000 cycles No damage 往复拉伸 10000 次后, 10000 次后 无破损 无破损 Conclusion Pass 1 结论 合格 (2)Sample Length: 20mm, Displacement Distance: 40mm 样品长度: 20mm, 位移距离: 40mm No damage after After 10000 cycles No damage 10000 cycles 10000 次后 无破损 往复拉伸 10000 次后, 无破损 Conclusion Pass 1 结论 合格

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Cross -sectional area and recovery linear relation 横截面面积与回复性线性关系

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