# Testing Site Acceptance

***Franchise***

The following organization has been assessed and found to comply with the relevant requirements of ISO/IEC 17025 and the Intertek Global Recognized Test Laboratory Policy Manual

## Recognized Test Laboratory

Under the Test Data Acceptance for CAPA China Program and is authorized to perform test work for the product types identified on the endorsement to this Testing Site Acceptance.

**Intertek RTL Program**

Our data acceptance testing program allows a qualified laboratory to perform product testing at their site, with the same validity as if it were conducted in an Intertek laboratory.

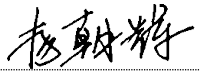
**Organization:**

台湾精测股份有限公司材料试验室
**Taiwan Accurate Testing Lab Co., Ltd.**
33850 桃园县芦竹乡五福一路 50 巷 26 号
**No. 26, Ln. 50, Wufu 1st Rd., Luzhu Dist., Taoyuan City, Taiwan.**

| | |
|---|---|
| **Acceptance Number** | 2018-RTL-L4-02 |
| **Issue Number** | 2018-RTL-L4-02-01 |
| **Issue Date** | 18 July 2018 |
| **Expiry Date** | 17 July 2021 |

This Testing Site Acceptance is valid until the expiry date shown above, subject to continuing compliance with the conditions specified in the endorsement of this site acceptance.

The Testing Site Acceptance is comprised of this front sheet and 1 endorsement.

**Signature:** 
**Name:** 杨朝辉
**Title:** Manager
**Date:** 18 July 2018

# Testing Site Acceptance

***Franchise***

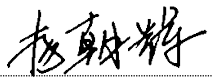
**Endorsement to Acceptance No: 2018-RTL-L4-02**

The details below define the conditions applicable to the Testing Site Acceptance granted to the Laboratory, and are valid only for the period stated below. The acceptance is subject to the laboratory's continuing compliance with the applicable rules according to Intertek's Recognized Test Laboratory Program.

**Scope of Acceptance:**
**Material testing** as indicated in:
CAPA 101, CAPA 201, CAPA 202 and CAPA 501.
Detailed scope of acceptance is listed in the appendix.

**Conditions applicable to the Acceptance:**
None within the scope

The Testing Site Acceptance is comprised of the front sheet and 1 endorsement.

**Signature:** 
**Name:** 杨朝辉
**Title:** Manager
**Date:** 18 July 2018



**Appendix: Detailed List for Scope of Acceptance**

# Testing Site Acceptance

| CAPA 101: Metal Parts | | |
|---|---|---|
| **Requirement**<br>**规定** | **Test**<br>**测试** | **CAPA QSM Reference**<br>**CAPA 质量标准手册章节** |
| Dimensions<br>尺寸 | Thickness<br>厚度 | 8.5.1 |
| Chemical Analysis<br>化学分析 | Optical Emission Spectroscopy (OES)<br>光学放射光谱或相符光谱 | 8.5.2 |
| | Presence of Galvanized Material<br>是否使用镀锌材料 | 8.5.2.1 |
| Mechanical Properties<br>机械性质 | Tensile Strength & Yield Strength<br>抗张强度及屈服强度 | 8.5.3 |
| | Rockwell hardness<br>洛氏硬度 | 8.5.3 |
| Resistance Spot Welds<br>电阻点焊 | Quality 品质 | 8.5.4.1.1 |
| | Number and Location 数量与位置 | 8.5.4.1.2 |
| | Strength (Size) 强度 (尺寸) | 8.5.4.1.3 |
| Arc Welds<br>电弧焊接 | Quality 品质 | 8.5.4.2.1 |
| | Number and Location 数量与位置 | 8.5.4.2.2 |
| | Size 尺寸 | 8.5.4.2.3 |
| Laser Welds<br>雷射焊接 | Quality 品质 | 8.5.4.3.1 |
| | Length and Location 长度与位置 | 8.5.4.3.2 |
| | Metallographic Examination 金相检验 | 8.5.4.3.3 |
| | Mechanical Testing 机械测试 | 8.5.4.3.4 |
| Rivets and Clinch Fasteners<br>铆钉与冲压紧固件 | Quality 品质 | 8.5.4.4.1 |
| | Dimensions (rivets only) 尺寸 (仅铆钉) | 8.5.4.4.2 |
| | Number and Location 数量与位置 | 8.5.4.4.3 |
| | Strength 强度 | 8.5.4.4.4 |
| | Chemical Analysis and Hardness (rivets only)<br>化学分析与硬度 (仅铆钉) | 8.5.4.4.5 |
| Adhesive<br>胶点 | Number, Location, and Cumulative Coverage<br>数量, 位置, 与累计总量 | 8.5.5.1 |
| | Performance (Shear)<br>效能(剪力) | 8.5.5.2 |
| Fasteners and Hardware<br>紧固件与五金 | Dimensions 尺寸 | 8.5.6.1/8.5.6.2 |
| | Thickness 厚度 | 8.5.6.3 |
| | Coating 涂装 | 8.5.6.4 |
| | Chemical Analysis 化学分析 | 8.5.6.5/8.5.6.6 |
| | Hardness 硬度 | 8.5.6.7 |
| | Retention 拉力 | 8.5.6.9 |
| Electrodeposition Primer (EDP)<br>电着涂装底漆(EDP) | Adhesion 黏性 | 8.5.7.1 |
| | Brittleness/Dime Scrape 易碎度/硬币刮擦测试 | 8.5.7.2 |
| | Humidity 湿度 | 8.5.7.3 |
| | Cure 固化 | 8.5.7.4 |

# Testing Site Acceptance

| | | |
|---|---|---|
| Decorative Metallic Coatings<br>装饰金属涂装 | Thickness 厚度 | 8.5.8.1.1 |
| | CASS (44-hour) 以铜加速的醋酸盐雾测试(44 小时) | 8.5.8.1.2 |
| | Adhesion 黏性 | 8.5.8.1.3 |
| | Impact Resistance 抗撞效能 | 8.5.8.1.4 |
| Decorative Painted Coatings<br>装饰表漆 | Thermal Cycle 热循环 | 8.5.8.2.1 |
| | Chemical Resistance 抗化学性 | 8.5.8.2.2 |
| | Automotive Wax 汽车蜡 | 8.5.8.2.3 |
| | High Pressure Cleaning 高压清洗 | 8.5.8.2.4 |
| | Impact Resistance 抗撞效能 | 8.5.8.2.5 |
| | Artificial Weathering 人造天候 | 8.5.8.2.6 |

# Testing Site Acceptance

| CAPA 201: Plastic Parts | | |
|---|---|---|
| **Requirement**<br>**规定** | **Test**<br>**测试** | **CAPA QSM Reference**<br>**CAPA 质量标准手册章节** |
| Dimensions<br>尺寸 | Thickness<br>厚度 | 9.4.1 |
| Chemical and Composition Analysis<br>化学与成份分析 | Infrared Spectroscopy (IR)<br>红外线分光器 | 9.4.2 |
| | Filler Content: Thermogravimetric Analysis (TGA)<br>充填物内容: 热重分析法 | 9.4.3.1.1 |
| | Differential Scanning Calorimetry (DSC)<br>差别扫描热量测试 | 9.4.3.2 |
| Mechanical Properties<br>机械性质 | Tensile Strength<br>抗张强度 | 9.4.5.1 |
| | Heat Aged Tensile Strength<br>热老化抗张强度 | 9.4.5.2 |
| | Impact at Room Temperature: Izod/Gardner<br>室温冲击测试：Izod /Gardner | 9.4.5.3.1<br>9.4.5.3.2 |
| | Cold Impact 低温冲击测试 | 9.4.5.4 |
| Thermal Properties<br>热性质 | Coefficient of Linear Thermal Expansion (CLTE)<br>线性系数热膨胀(CLTE) | 9.4.6.1 |
| | Heat Deflection Temperature (HDT)<br>热偏离温度(HDT) | 9.4.6.2 |
| Adhesive<br>胶点 | Number, Location, Cumulative Coverage, and Type<br>数量, 位置, 累计总量, 及类型 | 9.4.7.1 |
| | Performance: Shear or Peel<br>性能: 剪力 或 剥离 | 9.4.7.2<br>9.4.7.2.1<br>9.4.7.2.2 |
| Fasteners and Hardware<br>紧固件及五金 | Dimensions 尺寸 | 9.4.8.1<br>9.4.8.2 |
| | Thickness 厚度 | 9.4.8.3 |
| | Coating 涂装 | 9.4.8.4 |
| | Chemical Analysis 化学分析 | 9.4.8.5/ 9.4.8.6 |
| | Hardness 硬度 | 9.4.8.7 |
| | Retention 拉力 | 9.4.8.9 |
| Primer<br>底漆 | Adhesion 黏性 | 9.4.9.1 |
| | Brittleness/Dime Scrape 易碎度/硬币刮擦测试 | 9.4.9.2 |
| | Humidity 湿度 | 9.4.9.3 |
| | Cure 固化 | 9.4.9.4 |
| Uncoated Final Surfaces<br>未具表面涂装 | Artificial Weathering<br>人造天候 | 9.4.10.1 |
| Decorative Metallic Coatings<br>装饰金属涂装 | Thickness 厚度 | 9.4.11.1.1 |
| | Thermal Cycle With CASS (16-hour)<br>热循环以铜加速的醋酸盐雾测试(16 小时) | 9.4.11.1.2 |
| | Adhesion 黏性 | 9.4.11.1.3 |

| | | |
|---|---|---|
| | Impact Resistance 抗撞效能 | 9.4.11.1.4 |
| | High Pressure Cleaning 高压清洗 | 9.4.11.1.5 |
| Decorative Painted Coatings 装饰表漆 | Thermal Cycle 热循环 | 9.4.11.2.1 |
| | Chemical Resistance 抗化学性 | 9.4.11.2.2 |
| | High Pressure Cleaning 高压清洗 | 9.4.11.2.3 |
| | Impact Resistance 抗撞效能 | 9.4.11.2.4 |
| | Artificial Weathering 人造天候 | 9.4.11.2.5 |

# Testing Site Acceptance

| CAPA 202: Nonwoven Fabric Parts 不织布零件 | | |
|---|---|---|
| **Requirement**<br>**要求** | **Test**<br>**测试** | **CAPA QSM Reference**<br>**CAPA 质量标准手册章节** |
| Dimensions<br>尺寸 | Thickness<br>厚度 | 10.3.2 |
| Chemical and Composition Analysis<br>化学与成份分析 | Infrared Spectroscopy (IR)<br>红外线分光仪 | 10.3.3 |
| | Filler Content: Thermogravimetric Analysis (TGA) or Filler Separation and Analysis<br>充填物内容: 热重分析测试 (TGA); 或充填物分离和分析 | 10.3.4.1.1<br>10.3.4.1.2 |
| | Differential Scanning Calorimetry (DSC)<br>差别扫描热量测试(DSC) | 10.3.4.2 |
| Physical Properties<br>物理性质 | Mass (Weight) 质量 (重量) | 10.3.5.1 |
| | Density 密度 | 10.3.5.2 |
| Mechanical Properties<br>机械性质 | Tear Strength As Received<br>于收到之零件上进行撕扯强度测试 | 10.3.6.1 |
| | Tear Strength After Humidity<br>湿度测试后之撕扯强度测试 | 10.3.6.2 |
| | Tear Strength After Heat Aging<br>热老化测试后之撕扯强度测试 | 10.3.6.3 |
| | Tear Strength After Water Immersion<br>水没测试后之撕扯强度测试 | 10.3.6.4 |
| | Peel Strength – Laminated Nonwoven Fabric Parts<br>剥离强度 - 多层次不织布零件 | 10.3.6.5 |
| Mechanical Properties: Nonwoven Fabric Components<br>机械性质: 不织布组件 | Retention<br>拉力 | 10.3.7 |
| Chemical Resistance<br>抗化学性质 | Multiple Test Chemicals<br>多种测试药剂 | 10.3.8 |
| Moisture Absorption<br>湿气吸收 | | 10.3.9 |
| Flammability<br>易燃性 | | 10.3.10 |
| Low Temperature Flexibility<br>低温曲绕性 | | 10.3.11 |
| Thermal Properties<br>热性质 | Full Part Dimensional Stability<br>全零件尺寸稳定性 | 10.3.12.1 |

# Testing Site Acceptance

| Material Testing for CAPA 501<br>CAPA 501 材质测试 | | |
|---|---|---|
| **Requirement**<br>**规定** | **Test**<br>**测试** | **CAPA QSM Reference**<br>**CAPA 质量标准手册章节** |
| Dimensions<br>尺寸 | Thickness<br>厚度 | 13.5.1 |
| Chemical Analysis<br>化学分析 | Optical Emission Spectroscopy (OES)<br>光学放射光谱 | 13.5.2 |
| Mechanical Properties<br>机械性质 | Tensile Strength/ Yield Strength/ Rockwell hardness<br>抗张强度/屈服强度/洛氏硬度 | 13.5.3 |
| Resistance Spot Welds<br>电阻点焊 | Quality 品质 | 13.5.4.1.1 |
| | Number and Location 数量与位置 | 13.5.4.1.2 |
| | Strength (Size) 强度 (尺寸) | 13.5.4.1.3 |
| Arc Welds<br>电弧焊接 | Quality 品质 | 13.5.4.2.1 |
| | Number and Location 数量与位置 | 13.5.4.2.2 |
| | Size 尺寸 | 13.5.4.2.3 |
| Laser Welds<br>雷射焊接 | Quality 品质 | 13.5.4.3.1 |
| | Length and Location 长度与位置 | 13.5.4.3.2 |
| | Metallographic Examination 金相检验 | 13.5.4.3.3 |
| | Mechanical Testing 机械测试 | 13.5.4.3.4 |
| Fasteners<br>紧固件 | Dimensions 尺寸 | 13.5.5.1 |
| | Coating 涂装 | 13.5.5.3 |
| | Chemical Analysis 化学分析 | 13.5.5.4/13.5.5.5 |
| | Hardness 硬度 | 13.5.5.6 |
| | Retention 拉力 | 13.5.5.8.1 |
| Hitches, Hitch Assemblies, and Hardware<br>拖栓, 拖栓零配件, 及五金 | Dimensions 尺寸 | 13.5.5.2 |
| | Thickness 厚度 | 13.5.5.2.1 |
| | Coating 涂装 | 13.5.5.3 |
| | Chemical Analysis 化学分析 | 13.5.5.4/13.5.5.5 |
| | Hardness 硬度 | 13.5.5.6 |
| | Retention 拉力 | 13.5.5.8.2 |
| Primer<br>底漆 | Adhesion 黏性 | 13.5.6.1 |
| | Brittleness/Dime Scrape 易碎度/硬币刮擦测试 | 13.5.6.2 |
| | Humidity 湿度 | 13.5.6.3 |
| | Cure 固化 | 13.5.6.4 |
| Decorative Metallic Coatings<br>装饰金属涂装 | Thickness 厚度 | 13.5.7.1.1 |
| | CASS (44-hour) 以铜加速的醋酸盐雾测试(44 小时) | 13.5.7.1.2 |
| | Adhesion 黏性 | 13.5.7.1.3 |
| | Impact Resistance 抗撞效能 | 13.5.7.1.4 |
| Decorative Painted Coatings<br>装饰表漆 | Thermal Cycle 热循环 | 13.5.7.2.1 |
| | Chemical Resistance 抗化学性 | 13.5.7.2.2 |
| | Automotive Wax 汽车蜡 | 13.5.7.2.3 |
| | High Pressure Cleaning 高压清洗 | 13.5.7.2.4 |

# Testing Site Acceptance

| | | |
|---|---|---|
| | Impact Resistance<br>抗撞效能 | 13.5.7.2.5 |
| | Artificial Weathering<br>人造天候 | 13.5.7.2.6 |
| Foam Components in Reinforcement Bars<br>加强杆中发泡组件 | Infrared Spectroscopy (IR)<br>红外线分光仪 | 13.6.2 |
| | Thermogravimetric Analysis (TGA) or<br>Filler Separation and Analysis<br>充填物:<br>热重分析测试 (TGA); 或是充填物分离和分析 | 13.6.3.1.1<br><br>13.6.3.1.2 |
| | Differential Scanning Calorimetry (DSC)<br>差别扫描热量测试(DSC) | 13.6.3.2 |
| | Density<br>密度 | 13.6.5.1 |
| | Compression<br>压缩 | 13.6.6.4 |
| Mechanical Properties<br>机械性质 | Flexural Modulus<br>弯曲系数 | 13.6.6.1 |
| | Flexural Strength<br>弯曲强度 | 13.6.6.2 |
| | Heat Aged Flexural Strength<br>热老化弯曲强度 | 13.6.6.3 |
| | Compression<br>压缩 | 13.6.6.4 |
| | Heat Aged Compression:<br>Expanded Polypropylene (PP);<br>Polystyrene (PS) and Polystyrene (PS) Blends<br>热老化压缩:<br>发泡聚丙烯<br>发泡聚苯乙烯与<br>发泡聚苯乙烯混合 | 13.6.6.5<br>13.6.6.5.1<br>13.6.6.5.2 |
| Thermal Properties<br>热性质 | Full Part Dimensional Stability<br>全零件尺寸稳定性 | 13.6.7.1 |
| Chemical Resistance<br>抗化学性 | Multiple Test Chemicals<br>多重测试化学药剂 | 13.6.8 |