

透明抗靜電 PS 薄板 – AQ5006C3

Transparent and antistatic PS sheet – AQ5006C3

1. 產品簡介 Product Description

奇菱生產的透明抗靜電薄板 AQ5006C3，應用於載帶成型。由於材料內部摻有抗靜電劑，在物品移動的過程中，能有效消除靜電，避免靜電破壞與吸附灰塵。成型的載帶可裝填被動元件，電子開關等電子元件。由於表層具有特殊處理，加熱時，可與上帶(Cover Tape)的膠層產生良好的接著性，提供穩定的剝離強度。

AQ5006B3 is an antistatic PS sheet manufactured by Chi Lin. Due to internal antistatic additive comprised in material can effectively eliminate static electricity, avoid static electricity damage and attraction of dust. It provides good transparency and high impact resistance, combined with its flexibility. It also provides excellent secondary workability, such as heat sealing and adhesion. It is used in a wide range of applications, such as package material for electronic devices or components.

2. 規格 Specification

| | | |
|-----------------------------|----------------------|-----------------------------|
| 顏色 Color | | 透明無色 Colorless and Clear |
| 板材厚度 Thickness | | 0.25~0.5 毫米 0.25~0.5 mm |
| 捲材寬度 Roll Width | | 640 毫米 640 mm |
| 捲材長度 Roll Length | | 410 公尺 410 M |
| 管芯 Spec. of Winding Core | 材質 Material | 紙管 Paper Core |
| | 內徑 Inner Diameter | 6 英吋 6 inch |

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| | | |
|---------------------|---------------------|-------------------------|
| 成品尺寸公差 Tolerance | 寬度 Width | 640 毫米 640 mm |
| | 厚度 Thickness | ± 0.03 毫米 ± 0.03 mm |
| | 捲材寬度 Roll Width | ±1 毫米 ±1 mm |
| | 捲材長度 Roll Length | 405~410 公尺 405~410 M |

3. 材料物性資料 Datasheet

| 性質 Property | | 測試規範 Test Method | 單位 Unit | 測試結果 Test Result |
|-----------------------------|--------------------------------------|---------------------|---------------------|---------------------|
| 物理性質(Physical Properties) | | | | |
| 比重 Specific Gravity | | ASTM D-792 | --- | 1.06 |
| 機械性質(Mechanical Properties) | | | | |
| 縱向 MD ¹⁾ | 拉伸降服強度 Tensile Strength @Yield | ASTM D-882 | kgf/cm ² | 300 |
| | 拉伸斷裂強度 Tensile Strength @ Break | ASTM D-882 | kgf/cm ² | 250 |
| | 拉伸斷裂延伸率 Tensile Elongation @Break | ASTM D-882 | % | 30 |
| | | | | |
| 橫向 TD ²⁾ | 拉伸降服強度 Tensile Strength @Yield | ASTM D-882 | kgf/cm ² | 240 |
| | 拉伸斷裂強度 Tensile Strength @Break | ASTM D-882 | kgf/cm ² | 230 |

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| | | | | |
|--|--------------------------------------|-------------|---------|---------------------|
| | 拉伸斷裂延伸率 Tensile Elongation @Break | ASTM D-882 | % | 30 |
| 熱性質(Thermal Properties) | | | | |
| 熱變形溫度 Heat Distortion Temperature | | ASTM D-648 | @ | 77 |
| 電氣性質(Electrical Properties) | | | | |
| 表面電阻 Surface Resistivity | | ASTM D-257 | Ohm/sq. | 10 ^{10~11} |
| 光學性質(Optical Properties) | | | | |
| 可見光穿透度 Light Transmission ³⁾ | | ASTM D-1003 | % | 70 |
| 濁度 Haze ⁴⁾ | | ASTM D-1003 | % | 25 |

1) MD: machinery direction

2) TD: transverse direction

3) Thickness of test specimen is 0.4mm

4) Thickness of test specimen is 0.4mm

4. 剝離強度與老化測試 Peeling and Aging Test

1) 貼合條件：將上帶與奇菱載帶以封刀進行熱封壓合。

Adhesion condition : Cover tape and carrier tape are tapped together by thermal sealing device.

2) 測試條件：180°反向撕開上帶，測試剝離強度

Testing condition : Peel the cover tape at angle of 180° and measure peeling strength.

3) 老化測試：將貼合完畢的樣品放在 60°C/90%RH 一個月後，測試剝離強度變化

Aging test: Peeling strength is determined when taped sample is conditioned at 60°C and 90% RH for a month.

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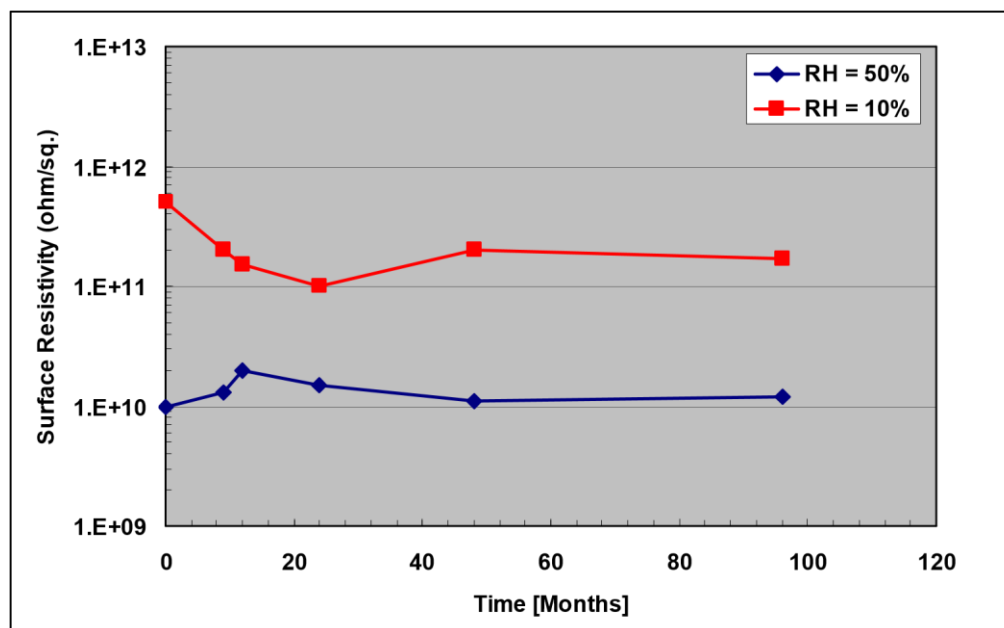
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4) 剝離測試結果 (Peeling Test Result) :

| 熱封上帶 Cover Tape | | 大揚 Capital | | 電化 Denka | | | 聯盟 Intlpak | | | 吉景 Ji Jing | 慶聯 Qing Lian |
|----------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | | 927AR | K98 | ALS-ATA | ALS-S | ALS-AS | 007 | 7008 | 7007 | JXY-5910 | 178SS |
| 貼合條件 Taping Condition | | 170@ 30psi | 170@ 30psi | 190@ 30psi | 190@ 30psi | 190@ 30psi | 190@ 30psi | 180@ 30psi | 190@ 30psi | 140@ 30psi | 170@ 30psi |
| 老化條件 Aging Condition | 60°C/90%RH/1Day | 50 | 46 | 74 | 77 | 36 | 89 | 369 | 63 | 61 | 42 |
| | 60°C/90%RH/3Day | 48 | 53 | 79 | 90 | 55 | 93 | 358 | 63 | 65 | 55 |
| | 60°C/90%RH/7Day | 44 | 79 | 98 | 98 | 45 | 110 | 358 | 51 | 63 | 55 |
| | 60°C/90%RH/15Day | 50 | 85 | 132 | 94 | 48 | 181 | 370 | 58 | 61 | 36 |
| | 60°C/90%RH/30Day | 49 | 90 | 158 | 117 | 52 | 181 | 380 | 60 | 68 | 54 |

Unit: gram

5. 抗靜電效果的長期穩定性 Long-term Stability of Antistatic Performance



RH = relative humidity
Surface Resistivity:
ASTM D-257; 500V

6. 儲存條件與保存期限 Recommended Storage Condition

1) 保存溫度 Storage Temperature (Min/Max) : Min 0°C / Max 40°C

2) 保存環境相對溼度限制 Limitation of Relative Humidity : Max 70%RH



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3)保存期限 **Shelf Life** : 1 年 **One Year**

4)敏感性 **Special Sensitivity** : 避免潮溼與陽光曝曬 **Sensitive to moisture and solar exposure**

5)其他注意事項 : **Notice** 成品捲材請直立擺放 , 不建議堆疊 , 堆疊可能導致捲材變形或物性衰退 **Please place jumbo rolls upright, do not recommend stacking, stacking may lead to deformation, or physical decline.**