

奇菱科技股份有限公司

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AH0402C5 (Permanent Antistatic Polystyrene Sheet) 永久抗靜電 PS 板材

- A static dissipative PS sheet with good surface resistivity. 靜電消散 PS 片材具有良好的表面電阻率。
- Excellent control of both electrostatic discharge (ESD) and particulate attraction.
在靜電放電 (ESD) 和顆粒的吸引力具有良好控制性。
- No migration will occur if rinse in water. 水沖洗不發生遷移現象。
- Permanent antistatic 永久抗靜電。
- Durable and reusable. 堅固耐用，可重複使用。
- Conductivity is less independent with relative humidity. 導電度受相對濕度影響不明顯。

AH0402C5 Cross-section Profile

AH0402C5 橫截面簡介

Static Dissipative Skin Layer

靜電耗散表層

HIPS Core Layer

HIPS 核心內層

Static Dissipative Skin Layer

Typical Physical Properties of AH0402C5

PROPERTY 特性	TEST METHOD 測試方法	UNIT 單位	VALUE 數值
PHYSICAL PROPERTIES 物理性質			
Specific Gravity 比重	ASTM D-792	---	1.05
MECHANICAL PROPERTIES 機械性質			
Tensile Strength @ Yield 降伏點拉伸強度 MD	ASTM D882	Kg/cm ²	240
Tensile Strength @ Break 斷裂點拉伸強度 MD	ASTM D882	Kg/cm ²	225
Tensile Elongation @ Break 斷裂點伸長率 MD	ASTM D882	%	45
Tensile Strength @ Yield 降伏點拉伸強度 TD	ASTM D882	Kg/cm ²	230
Tensile Strength @ Break 斷裂點拉伸強度 TD	ASTM D882	Kg/cm ²	210
Tensile Elongation @ Break 斷裂點伸長率 TD	ASTM D882	%	30
THERMAL PROPERTIES 熱性質			
Heat Distortion Temperature @ 264psi 熱變形溫度@264psi	ASTM D648	°C	80
Vicat Softening Temp. 軟化點 (≡T _g 點)	ASTM D-1525	°C	88
ELECTRICAL PROPERTIES 電氣性質			
Surface Resistivity 表面電阻率	ASTM D-257 (50%RH)	Ohms/square	10 ⁶ ≤ SR ≤ 10 ⁹
Static Decay Rate 靜電衰減率	FTMS-101C (12%RH) +5000V → +50V	Seconds	0.02~0.03

- 1) Due to different facilities and processing conditions will lead to different results, the data herein is just for reference and cannot represent the real properties of user's products that is made of this material. 由於不同的成型設備與成型條件將導致不同的結果，以上數據不能代表使用者利用此材料所製作出的成品之實際性質，僅供參考。

Recommended Storage Condition 儲存條件

- 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
- 3) 保存期限 Shelf Life : 2年 two Years
- 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 : 產品邊緣容易脫皮，應避免受到重新製造或切削加工。To avoid the product edges under attack after the re-manufacture or cutting processes, the product edges will be easy peeling under attack.

All physical data was tested from Chilin Laboratory.

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