

技術資料表
Technical Data Sheet

VMACTYPE

永久抗靜電，抗 UV 耐候，透明級

Permanent antistatic, UV and weather resistant, transparent grade

樹脂 Resin	PMMA Polymethyl methacrylate
規格 Grade	VMAC5Z-A4L
來源 source	上禾伸企業

描述 Description

■透明級，3mm 透光度 80%左右。永久抗靜電，抗靜電長期穩定。

Transparent grade, 3mm transmittance is about 80%. Permanent antistatic, long-term stable antistatic effect.

■對紫外線和自然元素的抵抗能力強，不易變黃或褪色，是抗 UV 耐候級，可使用於戶外，或是光罩強烈之環境，抵抗紫外線的破壞性。

It has strong resistance to ultraviolet rays and natural elements, is not easy to turn yellow or fade, is UV-resistant and weather-resistant, and can be used outdoors or in environments with strong light to resist the destructive effects of ultraviolet rays.

■可耐化學腐蝕性，對許多化學物質具有很好的耐受性，因此常用於製作實驗室設備、醫療器械、化學工業的容器等。

It is resistant to chemical corrosion and has good tolerance to many chemicals, so it is often used to make laboratory equipment, medical devices, containers in the chemical industry, etc.

成型模式	射出成型
Forming mode	Injection Molding

特性 Properties

項目 Project	測試標準 Testing standards	單位 Unit	標準數值 Typical Value
比重 Specific Gravity	ASTM D792	g/cm ³	1.14
流動指數 MFR,(MI) 190×2.16KG	ASTM D1238	g/10min	20
收縮率-平行 Mold Shrinkage MD	3 mm t	%	0.8~
收縮率-垂直 ⊥ Mold Shrinkage TD			1.3
耐燃性 Flammability	UL-94		HB
顏色 Color			透明 transparent

PMMA VMAC5Z-A4L TDS 1/2

**機械特性 Mechanical properties**

伸張降伏強度 Tensile Strength at Yield	ASTM D638	kg/ cm ²	490
斷裂伸張率 Tensile Elongation at Break		%	5
彎曲強度 Flexural Strength	ASTM D790	kg/ cm ²	660
彎曲模數 Flexural Modulus			19000
衝擊強度(缺口式) IZOD Impact (notched)	ASTM D256	23°C kg-cm/cm	2

熱力特性 Heat properties

熱變形溫度 18.54kg/ cm ²	ASTM D648	°C	80
Heat distortion temperature H D T			

電氣特性 Electrical properties

體積固有阻抗 Volume inherent impedance	ASTM D257	Ω-cm	10 ⁸⁻⁹
表面阻抗 Surface resistivity		Ω	10 ⁸⁻⁹

成型條件 Molding conditions

烘乾溫度 Drying temp. °C	70	烘乾時間 Drying time H	4
進料區溫度 Feed zone temp. °C	190~215	壓縮區溫度 Compression zone temp. °C	195~220
計量區溫度 Metering zone temp. °C	200~225	噴嘴溫度 Nozzle temp. °C	200~230
模具溫度 Mold temp. °C	30~60	射出壓力 Injection pressure Kg/ cm ²	600~900

*雖然上述信息是出於善意並被認為是準確的，但我們不保證依賴此類信息取得令人滿意的結果，並且不承擔因使用此類信息而引起的任何損失或損害的全部責任。*以上數值係僅供選擇用途品級之參考。

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