

EVA RESIN, POLYMER-E[®] 百利滿-E[®] 乙烯醋酸乙烯酯共聚合樹脂 Ethylene Vinyl Acetate Copolymer Resins EV101



特性

EV101 是一種乙烯醋酸乙烯酯共聚合樹脂，具有很多優異特性，包括：柔軟而有彈性，透明、無毒，抗外界應力龜裂性很強，抗衝擊强度高，低溫柔軟性很好，以及加工容易等，所以可用以開發新用途，及替代軟質 PVC、橡膠與其他彈性材料。**EV101** 可添加發泡劑、交聯劑及無機填充物，以射出或壓縮成型法製造發泡中底。

膜片擠壓加工，如鑄膜擠壓及共擠壓的成品，可作醫療與醫藥材料的特殊包裝，及食品的裹包與包裝之用。

Characteristics

POLYMER-E[®] EV101 is the ethylene vinyl acetate copolymer resin(EVA), possessing many excellent characteristics including flexibility, elasticity, transparency, non-toxicity, good resistance to environmental stress cracking, low temperature flexibility, easy processability and etc. For these characteristics, The **POLYMER-E[®] EV101** can be used to develop the new applications and replace the flexible PVC, rubbers and other elastomers. One of the applications is the incorporation of foaming agents, crosslinking agents and inorganic fillers with **POLYMER-E[®] EV101** for injection and compression molding of foamed mid-sole material for shoes. **POLYMER-E[®] EV101** is extruded to sheet such as casting and co-extrusion for special packaging of hospital and medical materials, food packaging and other packaging.

應用

1. 射出發泡
2. 鞋材發泡

Applications

1. Injection foam
2. Shoe sole foaming

物理性質 Physical Properties

項目 Properties	試驗方法 Test Method	數值 Typical Value
VA 含量 VA Content (%)	APC	18
密度 Density (g/cm ³)	ASTM D1505	0.941
熔融指數 Melt Index (g/10min)	ASTM D1238	1.8
斷裂點抗張強度(模片) Tensile Strength at Break (Molded) (kg/cm ²)	ASTM D638	220
斷裂點伸長率(模片) Ultimate Elongation at Break (Molded) (%)	ASTM D638	720
抗低溫脆裂性 Low Temperature Brittleness (°C/F50)	ASTM D746	<-70
衛氏軟化溫度 Vicat Softening Point (°C)	ASTM D1525	65
熔點 Melting Point (°C)	DSC	86
硬度(蕭氏 A) Hardness (Shore A)	ASTM D2240	90

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