

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

EV103



特性

EV103 是一種乙烯醋酸乙烯酯共聚合樹脂，具有柔軟、彈性、透明、無毒等特性，同時抗外界應力龜裂性、抗衝擊強度及低溫柔軟性均極優異，而且加工十分容易，因此可用於開發各種新用途，特別是替代軟質 PVC、橡膠與其他彈性材料。

EV103 主要用途係在添加交聯劑及發泡劑後，以壓縮成型法或射出成型法製造發泡鞋底，由於成品兼具柔軟度及物理強度，因此廣受客戶喜愛。此外，超塑烯 **EV103** 亦可用於射出成型、異型擠壓以及添加適當添加劑後用於吹膜擠壓。

Characteristics

POLYMER-E[®] EV103 is a high VA content ethylene vinyl acetate copolymer resin(EVA) with excellent low temperature impact strength, environmental stress crack resistance, flexibility, elasticity, transparency, and easy processability. It could be developed for many new applications and substitute for flexible PVC, rubbers, and other elastomers.

One of major application of **POLYMER-E[®] EV103** is incorporated with blowing agent and cross-linking agent for compression molding or injection molding of foamed shoe sole. Besides, **POLYMER-E[®] EV103** could be processed by profile extrusion, injection molding, and blown-extrusion while incorporated with additives.

應用

1. 鞋材發泡
2. 射出發泡

Applications

1. Shoe sole foaming
2. Injection foam

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	21
密度 Density (g/cm ³)	ASTM D1505	0.944
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	230
斷裂點伸長率(模片) Ultimate Elongation at Break (Molded) (%)	ASTM D638	740
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	63
熔點 Melting Point (°C)	DSC	84
硬度(蕭氏 A) Hardness (Shore A)	ASTM D2240	88

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Asia Polymer Corporation 亞洲聚合股份有限公司

Tel:886-2-87516888 Fax:886-2-26599502 Web:www.apc.com.tw

Address:12th Floor, No.37 Ji Hu Road, Nei Hu District, Taipei 114, Taiwan 地址:台北市 114 內湖區基湖路 37 號 12 樓