

# 聯塑烯 UNITHENE®

## 高密度聚乙烯塑膠原料

### High Density Polyethylene Resins

#### LH506



### 特性

聯塑烯 LH506，為射出成型級的高密度聚乙烯，具備優異的抗衝擊強度與改良之抗外界應力龜裂性，極適合於射製各種運動器具、工業用箱等，並且可利用乾式混合或擠壓熔混的方式輕易地染成各種顏色。

### Characteristics

UNITHENE LH506 is a high density polyethylene (HDPE) developed for injection molding applications. Possessing outstanding impact strength and improved resistance to environmental stress, UNITHENE LH506 is specially suitable for molding sport utensils and industrial cases. UNITHENE LH506 could be easily pigmented to any color by either dry blending or extrusion homogenization of pigment into the resin.

### 應用

1. 射出成型

### Applications

1. injection molding

### 物理性質 Physical Properties

項目 Properties	試驗方法 Test Method	數值 Typical Value
密度 Density (g/cm <sup>3</sup> )	ASTM D1505	0.955
熔融指數 Melt Index (g/10min)	ASTM D1238	6.0
降伏點抗張強度 Tensile Strength (Yield) (kg/cm <sup>2</sup> )	ASTM D638	250
斷裂點抗張強度 Tensile Strength (Break) (kg/cm <sup>2</sup> )	ASTM D638	290
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	760
抗衝擊強度 Izod Impact Strength(kg-cm/cm)	ASTM D256	11
彈性係數(模片) 1% Secant Modulus(Molded) (kg/cm <sup>2</sup> )	ASTM D638	8,400
扭轉剛性 Torsional Stiffness (kg/cm <sup>2</sup> )	ASTM D1043	10,000
彎曲剛性 Flexural Stiffness (kg/cm <sup>2</sup> )	ASTM D747	9,200
抗低溫脆裂性 Low Temperature Brittleness(°C/F50)	ASTM D746	<-76
衛氏軟化溫度 Vicat Softening Point(°C)	ASTM D1525	125
熔點 Melt Point (°C)	USI Method	132
硬度(蕭氏 D)Hardness (Shore D)	ASTM D2240	68

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