

# 聯塑烯 UNITHENE®

## 高密度聚乙烯塑膠原料

### High Density Polyethylene Resins

#### LH606



#### 特性

聯塑烯 LH606 是一種高密度聚乙烯，適合於射出成型及抽絲之用。在射出成型方面，常見的用途是水果箱、食品容器、工業用箱、家庭用具、棧板及玩具等。在抽絲加工方面，常用於製造蚊帳。聯塑烯 LH606 具高抗龜裂性及耐衝擊強度，挺性好，硬度高，光澤好，成型物的變形少，收縮率低。

聯塑烯 LH606 染色及印刷十分容易。通常可用乾式混合或熔融混練的方法，輕易染成各種顏色；如製品經過簡單的火燄、化學或電子表面處理後，就可輕易地印刷。

#### 應用

1. 射出成型
2. 抽絲

#### Characteristics

UNITHENE LH606 is a high density polyethylene (HDPE) suitably used for injection molding and filament applications. Typical applications are the injection molding of fruit crates, food containers, industrial items such as pallets, transportation crates, housewares, toys and the fine filament extrusion of mosquito nets.

UNITHENE LH606 possesses high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage.

UNITHENE LH606 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin. Printing on items molded from UNITHENE LH606 can be easily accomplished after a simple flame, chemical or electronic surface treatment.

#### Applications

1. injection molding
2. Filament Extrusion

#### 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 D792	0.962
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	310
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	600
抗衝擊強度 Izod Impact Strength(kg-cm/cm)	ASTM D256	7.0
彈性係數(模片) 1% Secant Modulus(Molded) (kg/cm <sup>2</sup> )	ASTM D638	9,900
扭轉剛性 Torsional Stiffness (kg/cm <sup>2</sup> )	ASTM D1043	12,500
彎曲剛性 Flexural Stiffness (kg/cm <sup>2</sup> )	ASTM D747	9,900
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	127
熔點 Melt Point (°C)	ASTM D3418	135
硬度(蕭氏 D)Hardness (Shore D)	ASTM D2240	69

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