

# 聯塑烯 UNITHENE®

## 高密度聚乙烯塑膠原料

### High Density Polyethylene Resins

#### LH606-13



#### 特性

聯塑烯 LH606-13 是一種高密度聚乙烯，適合於射出成型。因有添加紫外線吸收劑，其成品可在室外堆放、使用經年累月，而不老化。因此在射出成型方面，常用於製造啤酒箱、水果箱、食品容器、棧板和其他工業用箱等。

聯塑烯 LH606-13 具有高耐候性、耐衝擊強度及抗龜裂性，挺性好，硬度高，光澤好，成型物的變形少，收縮率低，加工性好等性質。

聯塑烯 LH606-13 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。

#### Characteristics

UNITHENE LH606-13 is a high density polyethylene (HDPE) suitably used for injection molding. The product used outdoors could stand age because containing UV absorber. Typical applications are the injection molding of beer crates, fruit crates, food containers, other industrial items such as pallets, transportation crate.

UNITHENE LH606-13 possesses excellent weatherability, high impact strength, good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage, good processability.

UNITHENE LH606-13 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 LH606-13 can be easily accomplished after a simple flame, chemical or electronic surface treatment.

#### 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	0.962
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	320
斷裂點抗張強度 Tensile Strength (Break) (kg/cm <sup>2</sup> )	ASTM D638	220
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	620
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	10,000
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)	USI Method	135
硬度(蕭氏 D)Hardness (Shore D)	ASTM D2240	69

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