

# 聯塑烯 UNITHENE®

## 高密度聚乙烯塑膠原料

### High Density Polyethylene Resins

#### LH614



#### 特性

聯塑烯 LH614 是一種高密度聚乙烯塑膠，熔融指數較高，適合射出成型加工，製造薄而精巧的家庭用品、日用品和玩具等。

聯塑烯 LH614 加工性好，製品耐衝擊強度及抗龜裂性高，挺性好，硬度高，光澤好，變形少，收縮率低。

聯塑烯 LH614 通常可用乾式混合或熔融混練的方法，輕易染成各種顏色。製品經過火燄、化學或電子表面處理後，就可順利印刷圖案或文字。

#### Characteristics

UNITHENE LH614 (HDPE) having high melt flow index suitable used for injection molding and the applications are thin and smart housewares, toys, etc. UNITHENE LH614 possesses good processability, high impact strength and good resistance to stress cracking, good stiffness, high hardness, good surface gloss, less warpage, low shrinkage.

UNITHENE LH614 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 LH614 can be easily accomplished after 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	12
降伏點抗張強度 Tensile Strength (Yield) (kg/cm <sup>2</sup> )	ASTM D638	310
斷裂點抗張強度 Tensile Strength (Break) (kg/cm <sup>2</sup> )	ASTM D638	150
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	170
抗衝擊強度 Izod Impact Strength(kg-cm/cm)	ASTM D256	3.5
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	12,100
彎曲剛性 Flexural Stiffness (kg/cm <sup>2</sup> )	ASTM D747	9,800
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	126
熔點 Melt Point (°C)	USI Method	135
硬度(蕭氏 D)Hardness (Shore D)	ASTM D2240	69

據本公司所知，上述資料應屬正確無誤，惟因使用時之情況非受本公司管制，所以本公司對上述所作之一切建議，恕不負保證之責。  
The information contained herein is, to our best knowledge, true and accurate. However, since conditions of use are beyond our control, all risks of such use are assumed by users

USI Corporation 台灣聚化品股份有限公司

Tel:886-2-87516888 Fax:886-2-26599599 Web:www.usife.com.tw E-mail:service\_usi@tpe.usife.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