

聯塑烯 UNITHENE®

高密度聚乙烯塑膠原料

High Density Polyethylene Resins

LH523



特性

聯塑烯 LH523 是專為射出成型發展而成的高密度聚乙烯。此外，亦可用於粉末塗膠。

LH523 由於熔融指數高，流動性好，因此，加工性極佳。另外由於密度低，製品耐衝擊性及抗龜裂性特佳，同時也具備挺性好、硬度高、光澤好、變形少等特點，可提高商品之價值。

LH523 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 LH523 is a high density polyethylene (HDPE) especially developed for injection molding. In addition, it can be applied to powder coating after grinding.

High melt index of UNITHENE LH523 makes it exhibit excellent processability. Also, UNITHENE LH523 possesses superb impact strength and resistance to stress crack owing to its lower density.

LH523 can be easily pigmented to any color by either dry blending or melt blending of the pigment into the resin. The products of LH523 can be easily printed after flame, chemical or electronic surface treatment.

應用

1. 射出成型
2. 粉末塗膠

Applications

1. injection molding
2. powder coating

物理性質 Physical Properties

項目 Properties	試驗方法 Test Method	數 值 Typical Value
密度 Density (g/cm ³)	ASTM D1505	0.956
熔融指數 Melt Index (g/10min)	ASTM D1238	23
降伏點抗張強度 Tensile Strength (Yield) (kg/cm ²)	ASTM D638	230
斷裂點抗張強度 Tensile Strength (Break) (kg/cm ²)	ASTM D638	290
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	300
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 ²)	ASTM D638	7,600
扭轉剛性 Torsional Stiffness (kg/cm ²)	ASTM D1043	9,200
彎曲剛性 Flexural Stiffness (kg/cm ²)	ASTM D747	8,200
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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