

聯塑烯 UNITHENE®

高密度聚乙烯塑膠原料

High Density Polyethylene Resins

LH503



特性

聯塑烯 LH503 是一種高密度聚乙烯，特別適合於射出成型與抽製板材。由於分子量加上密度的適當規劃，使得聯塑烯 LH503 同時擁有優異的抗環境應力龜裂性、極佳的挺性、傑出的耐衝強度等物理特性。因此聯塑烯 LH503 適合於射製或壓塑瓶蓋、運動護膝及護肘、豬床、涼椅、嬰兒車製品、搬運箱、腳踏車座墊以及墊板等大型物件，同時亦可以用於抽製薄板。

聯塑烯 LH503 可用乾式混合或擠壓熔混的方法輕易染成各種顏色。

應用

1. 射出成型
2. 押出成型

Characteristics

UNITHENE LH503 is a high density polyethylene resin (HDPE) especially suitable for injection & extrusion molding. Well designed molecular weight and density make UNITHENE LH503 possess excellent ESCR, stiffness, and impact strength. UNITHENE LH503 is specially suitable for mineral water caps, molding pig beds, sport utensils, garden furniture leisure items, baby cars, transportation crates, bicycle seats and pallets. It also can be used for extruding thin sheets.

UNITHENE LH503 can be easily pigmented to any color by either dry blending or extrusion homogenization of the pigment into resin.

Applications

1. injection molding
2. Extrusion 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 ³)	ASTM D1505	0.956
熔融指數 Melt Index (g/10min)	ASTM D1238	4.1
降伏點抗張強度 Tensile Strength (Yield) (kg/cm ²)	ASTM D638	250
斷裂點抗張強度 Tensile Strength (Break) (kg/cm ²)	ASTM D638	280
斷裂點伸長率 Ultimate Elongation (%)	ASTM D638	600
抗衝擊強度 Izod Impact Strength(kg-cm/cm)	ASTM D256	12
彈性係數(模片) 1% Secant Modulus(Molded) (kg/cm ²)	ASTM D638	8,500
扭轉剛性 Torsional Stiffness (kg/cm ²)	ASTM D1043	10,500
彎曲剛性 Flexural Stiffness (kg/cm ²)	ASTM D747	9,500
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)	DSC	130
硬度(蕭氏 D)Hardness (Shore D)	ASTM D2240	68

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