

Polimeri Europa Eraclene® MP 90 High Density Polyethylene - Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Eraclene MP 90 is a high density polyethylene homopolymer resin (HDPE) with antioxidants, suitable for injection molding application. Eraclene MP 90 has a narrow molecular weight distribution and a high density which makes it the perfect choice for the manufacturing of items requiring outstanding rigidity, warpage resistance and toughness. Main Applications: Eraclene MP 90 is specifically designed for bottle crates, cases, toys, trays and other similar objects requiring rigidity. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-MP-90-High-Density-Polyethylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ISO 1183
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	20 g/10 min	20 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	ISO 868/A
Tensile Strength at Break	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	400 %	400 %	ISO 527
Flexural Modulus	1.45 GPa	210 ksi	ISO 178
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ISO 180/A

Thermal Properties	Metric	English	Comments
Melting Point	137 °C	279 °F	Internal method
Vicat Softening Point	128 °C	262 °F	ISO 306/A
	@Load 1.00 kg	@Load 2.20 lb	
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746

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