

Polimeri Europa Eraclene® MP 94 U High Density Polyethylene - Injection Molding

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

Material Notes:

Eraclene MP 94 U is a gas phase high density polyethylene homopolymer resin (HDPE) with antioxidants, suitable for injection molding application. This grade has a narrow molecular weight distribution and a high density that make it ideal for injection molding applications where outstanding rigidity, warp resistance and toughness are required. The polymer has high thermal stability during extrusion. This grade is UV stabilized and it is suitable for the production of items for outdoor exposure. Main Applications: Eraclene MP 94 U is an injection molding grade designed for molded 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-94-U-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	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	21 g/10 min	21 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			ASTM D746

Thermal Properties	$\leq -60.0\text{ }^{\circ}\text{C}$ Metric	$\leq -76.0\text{ }^{\circ}\text{F}$ English	Comments
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