

Polimeri Europa Eraclene® ML 70 U High Density Polyethylene - Injection Molding

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

Material Notes:

Eraclene ML 70 U is a gas phase high density polyethylene resin (HDPE) with antioxidants, suitable for injection molding application. This grade has a narrow molecular weight distribution. It combines a good rigidity with high impact resistance, high stress cracking and creep. The polymer has high thermal stability during extrusion. Main Applications: Eraclene ML 70 U is recommended where adequate requirements for organoleptic properties are needed, production PET mineral water bottle caps and carbonated drinks. In addition Eraclene ML 70 U can be used to produce items with good mechanical properties, industrial containers, pallets and lids for open drums. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-ML-70-U-High-Density-Polyethylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.951 g/cc	0.951 g/cc	ISO 1183
Melt Flow	2.8 g/10 min	2.8 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	8.0 g/10 min	8.0 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	64	64	ISO 868/A
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527
Elongation at Break	800 %	800 %	ISO 527
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
Izod Impact, Notched	2.00 J/cm	3.75 ft-lb/in	ISO 180/A

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	Internal method
Vicat Softening Point	125 °C	257 °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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