

Polimeri Europa Eraclene® MS 80 U High Density Polyethylene - Injection Molding

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

Material Notes:

Eraclene MS 80 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 and a high fluidity making it ideal for injection molding applications. Eraclene MS 80 U has high thermal stability during extrusion and a good balance between fluidity and mechanical properties. Main Applications: Eraclene MS 80 U is an injection molding grade designed for thin-walled (food containers) aerosol caps. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-MS-80-U-High-Density-Polyethylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.955 g/cc	0.955 g/cc	ISO 1183
Melt Flow	27 g/10 min	27 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ISO 868/A
Tensile Strength at Break	10.0 MPa	1450 psi	ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Elongation at Break	100 %	100 %	ISO 527
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ISO 180/A

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	Internal method
Vicat Softening Point	126 °C	259 °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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