

Chevron Phillips Marlex® 9006 HDPE Injection Molding Resin

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

Material Notes:

Resin Type: Linear Copolymer, ASTM D 4976 Classification: PE 233, A 56700
 Characteristics: Moderate Flow, Excellent Impact Strength, Good Stiffness, Excellent ESCR, Moderate Shrinkage Resistance
 Applications: Industrial Pails (5 gallon), Pail Lids, Automotive, Foamed Parts
 Data provided by Chevron Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9006-HDPE-Injection-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in³	ASTM D1505
Apparent Bulk Density	0.590 g/cc	0.0213 lb/in³	ASTM D1895
Melt Flow	6.6 g/10 min @Load 2.16 kg, Temperature 190 °C	6.6 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
High Load Melt Index	171.6 g/10 min @Load 21.6 kg, Temperature 190 °C	171.6 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	900 %	900 %	ASTM D638
Flexural Modulus	1.03 GPa	149 ksi	3 pt. secant; ASTM D790
	1.28 GPa	186 ksi	3 pt. Tangent; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525
Brittleness Temperature	<= -71.0 °C	<= -95.8 °F	ASTM D746

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