

ExxonMobil HD 6706.17 Injection Molding Resin

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

Material Notes:

Product Description: HD 6706 is a narrow molecular weight hexane copolymer designed for good processability and excellent balance of ESR, Toughness and Stiffness properties. This resin is ideally suited for heavy-duty applications that require robust performance in conditions ranging from ambient to sub-zero temperatures. **Availability:** Latin America, North America and South America **Additive:**

Antioxidant: Yes **Applications:** Industrial Components Industrial Pails Lawn & Garden Accessories Quality Housewares Structural Foam

Articles Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HD-670617-Injection-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	4.0 hour	4.0 hour	Cond. B, 10%; ASTM D1693
Melt Flow	6.7 g/10 min @Load 2.16 kg, Temperature 190 °C	6.7 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	1300 %	1300 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	2% Secant; ASTM D790
Flexural Modulus, 1% Secant	1310 MPa	190000 psi	ASTM D790
Izod Impact, Notched	0.491 J/cm @Temperature -40.0 °C	0.920 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	132 °C	270 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	66.7 °C	152 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	40.5 °C	105 °F	ASTM D648

Descriptive Properties	Value	Comments
Features	Standard Processing Antioxidants Stabilizer	

Descriptive Properties	Value	Comments
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