

ExxonMobil HDPE HD 6706.17 High Density Polyethylene Copolymer Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HD-670617-High-Density-Polyethylene-Copolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ExxonMobil method
ESCR 10% Igepal®	4.0 hour	4.0 hour	F50; ASTM D1963B
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 at Break	8.96 MPa	1300 psi	ASTM D638
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	2% Secant; ASTM D790B
Flexural Modulus, 1% Secant	1310 MPa	190000 psi	ASTM D790B
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	<= 270 °C	<= 518 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	73.9 °C	165 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	46.1 °C	115 °F	ASTM D648B

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