

ExxonMobil HDPE HD 6704.18 High Density Polyethylene Copolymer Resin

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

Material Notes:

Product Description: HD 6704 is a narrow molecular weight hexane copolymer designed for outstanding balance of ESCR, 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 Caps & Closures Industrial Pails Packaging Drum Lids Recreational Vehicle - Components
 Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HD-670418-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®	6.0 hour	6.0 hour	F50; ASTM D1963B
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	8.27 MPa	1200 psi	ASTM D638
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	2% Secant; ASTM D790B
Flexural Modulus, 1% Secant	1310 MPa	190000 psi	ASTM D790B
Izod Impact, Notched	0.587 J/cm @Temperature -40.0 °C	1.10 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	<= 271 °C	<= 520 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	44.4 °C	112 °F	ASTM D648B

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