

ExxonMobil HD 6704.18 Injection Molding Resin

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

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 Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HD-670418-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	6.0 hour	6.0 hour	Cond. B, 10%; ASTM D1693
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, Yield	26.20 MPa	3800 psi	ASTM D638
Elongation at Break	1200 %	1200 %	ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	2% Secant; ASTM D790
Flexural Modulus, 1% Secant	1310 MPa	190000 psi	ASTM D790
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	132 °C	270 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	66.6 °C	152 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	39.0 °C	102 °F	ASTM D648

Descriptive Properties	Value	Comments
Features	Standard Processing Antioxidants Stabilizer	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China