

ExxonMobil HD 6605.29 Injection Molding Resin (discontinued **)

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

Material Notes:

HD 6605 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications, offering excellent ESCR with good stiffness-toughness balance. Ideally suited for articles requiring rugged physical performance in cold temperature environments. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HD-660529-Injection-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	18 hour	18 hour	Cond. B, 10%; ASTM D1693
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.2 MPa	3360 psi	ASTM D638
Elongation at Break	48 %	48 %	ASTM D638
Flexural Modulus	0.7060 GPa	102.4 ksi	1% Secant; ASTM D790
Izod Impact, Notched	0.705 J/cm @Temperature -40.0 °C	1.32 ft-lb/in @Temperature -40.0 °F	ASTM D256
Tensile Impact Strength	326 kJ/m ² @Temperature -40.0 °C	155 ft-lb/in ² @Temperature -40.0 °F	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	ASTM D3418
Crystallization Temperature	114 °C	237 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	38.0 °C	100 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Descriptive Properties	Value	Comments
Features	UV-8 Protection Package	
Form	Pellet	

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