

ExxonMobil HD 6510 Injection Molding Resin (discontinued **)

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

Material Notes:

HD 6510 is a narrow molecular weight hexene copolymer designed for good processability and excellent balance of ESCR, Toughness, and Stiffness properties. This resin is ideally suited for a wide range of applications that require robust performance in conditions ranging from ambient to sub-zero temperatures. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HD-6510-Injection-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	11 hour	11 hour	Cond. B, 10%; ASTM D1693
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.39 MPa	3103 psi	at 500 mm; ASTM D638
Elongation at Break	69 %	69 %	at 500 mm; ASTM D638
Flexural Modulus	0.7046 GPa	102.2 ksi	1% Secant; ASTM D790
Izod Impact, Notched	0.694 J/cm @Temperature -40.0 °C	1.30 ft-lb/in @Temperature -40.0 °F	ASTM D256
Tensile Impact Strength	208 kJ/m ² @Temperature -40.0 °C	99.2 ft-lb/in ² @Temperature -40.0 °F	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	265 °F	ASTM D3418
Crystallization Temperature	113 °C	235 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	58.7 °C	138 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	37.6 °C	99.7 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

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