

ExxonMobil HDPE HD 6605.70 High Density Polyethylene Copolymer Resin

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

Material Notes:

Product Description: HD 6605.70 is a narrow molecular weight hexane 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. **Availability:** Latin America, North America and South America **Additive:** Anti-gas fading: Yes **Applications:** Automotive Components Industrial Closures Recreation Vehicle – Components Waste Carts **Information provided by:** ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HD-660570-High-Density-Polyethylene-Copolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ExxonMobil method
ESCR 10% Igepal®	20 hour	20 hour	F50; ASTM D1963B
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 at Break	6.89 MPa	1000 psi	ASTM D638
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638
Flexural Modulus	0.965 GPa	140 ksi	2% Secant; ASTM D790B
Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM D790B
Izod Impact, Notched	0.534 J/cm @Temperature -40.0 °C	1.00 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	<= 266 °C	<= 511 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	68.9 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.2 °C	108 °F	ASTM D648B

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