

ExxonMobil HDPE HD 8660.29 High Density Polyethylene Resin

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

Material Notes:

Product Description: HD 8660 series are high density hexane copolymers designed to offer superior toughness and stiffness. They are ideally suited for applications that require the optimum balance of low temperature toughness, creep resistance, stiffness, ESCR and tear properties.
Availability: Latin America, North America and South America
Additive: Long Term UV-15 Stabilizer: Yes
Applications: Industrial Products
Intermediate Bulk Containers: Large Agricultural Tanks
 Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HD-866029-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D4883
ESCR 100% Igepal®	550 hour	550 hour	F50; ASTM D1963A
ESCR 10% Igepal®	50 hour	50 hour	F50; ASTM D1963A
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	(2.0 in/min); ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus, 1% Secant	896 MPa	130000 psi	ASTM D790B
Impact Test	244 J @Thickness 6.35 mm	180 ft-lb @Thickness 0.250 in	ARM
	108 J @Thickness 3.17 mm, Temperature -40.0 °C	80.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	<= 264 °C	<= 507 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	67.2 °C	153 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	41.1 °C	106 °F	ASTM D648

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