

ExxonMobil HDPE BU46-055 High Density Polyethylene Resin

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

Material Notes:

Product Description: BU46-055 is a high molecular weight, high density polyethylene copolymer which contains a UV inhibitor. It possesses a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance. It is often used in coextrusion applications.
Availability: Latin America, North America and South America
Additive: Thermal Stabilizer: Yes
Antistatic: No
UV Stabilizer: Yes
Applications: Automotive Fuel Tanks
 Compression Moldings
 Drums
 Food packaging
 Heavy Gauge Sheet
 Intermediate Bulk Containers
 Large Part Blow Molding
 Portable Fuel Tanks
 Small Engine Fuel Tanks
 Thermoformed Parts

Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-BU46-055-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM D4883
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1963
Melt Flow	<= 0.10 g/10 min	<= 0.10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	5.5 g/10 min	5.5 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	1100 %	1100 %	ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	ASTM D790
Tensile Impact Strength	420 kJ/m ²	200 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Vicat Softening Point	127 °C	261 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

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