

ExxonMobil LLDPE LL 8460.29 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 8460 is a linear low density hexene copolymer designed to offer excellent ESCR and toughness. This resin is ideally suited for applications that require the optimum balance of processability, stiffness and low temperature toughness. **Availability:** Latin America, North America and South America **Additive:** Stabilizer: Yes **Long Term UV-15 Applications:** Agricultural Tanks **Chemical Storage Tanks** **Large Size Playground Equipment** **Pallets** **Potable Water Tanks** **Septic Tanks** **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-846029-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in ³	ExxonMobil method
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	F50; ASTM D1693B
ESCR 10% Igepal®	150 hour	150 hour	F50; ASTM D1693B
Melt Flow	3.3 g/10 min @Load 2.16 kg, Temperature 190 °C	3.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.9 MPa	2600 psi	2.0 in/min; ASTM D638
Elongation at Yield	20 %	20 %	2.0 in/min; ASTM D638
Flexural Modulus, 1% Secant	758 MPa	110000 psi	ASTM D638
Impact Test	94.9 J @Thickness 3.17 mm, Temperature -40.0 °C	70.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	258 J @Thickness 6.35 mm, Temperature -40.0 °C	190 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM

Thermal Properties	Metric	English	Comments
Melting Point	<= 261 °C	<= 502 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	62.2 °C	144 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	38.9 °C	102 °F	ASTM D648

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