

ExxonMobil LLDPE LL 8450.31 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 8450 is a linear low density hexene copolymer designed to offer excellent stiffness, processability, whiteness and ESCR. They are ideally suited for applications that require the optimum balance of stiffness and processability. Availability: Latin America, North America and South America Additive: Stabilizer: Yes Long Term UV-8 Applications: Consumer Articles Junction Boxes Playground Equipment Potable Water Tanks Small Storage Boxes Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-845031-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.937 g/cc	0.0339 lb/in ³	ExxonMobil method
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	F50; ASTM D1693B
ESCR 10% Igepal®	190 hour	190 hour	F50; ASTM D1693B
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, 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	77.3 J @Thickness 3.17 mm, Temperature -40.0 °C	57.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM
	183 J @Thickness 6.35 mm, Temperature -40.0 °C	135 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)	61.1 °C	142 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	37.8 °C	100 °F	ASTM D648

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