

ExxonMobil LLDPE LL 8446.21 Linear Low Density Polyethylene Resin (European Grade)

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

Material Notes:

Product Description: LL 8446 is a linear low density butane copolymer designed to offer excellent processability, whiteness, and fast grinding rate. This UV stabilized resin is ideally suited for applications that require excellent dimensional control and low warpage.

Availability: Africa & Middle East, Asia Pacific and Europe **Additive:** Long Term UV-8 Stabilizer: Yes **Applications:** Consumer Articles General Purpose Articles Tanks Toys **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-844621-Linear-Low-Density-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ExxonMobil method
ESCR 100% Igepal®	>= 40 hour	>= 40 hour	F50; ASTM D1693A
ESCR 10% Igepal®	20 hour	20 hour	F50; ASTM D1693A
	30 hour	30 hour	F50; ASTM D1693
	@Thickness 1.91 mm	@Thickness 0.0750 in	
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.2 MPa	2500 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	0.689 GPa	100 ksi	ISO 178
Flexural Modulus, 1% Secant	758 MPa	110000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	<= 257 °C	<= 495 °F	Peak Melting Point; ExxonMobil method
Deflection Temperature at 0.46 MPa (66 psi)	52.2 °C	126 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	36.1 °C	97.0 °F	ASTM D648

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