

ExxonMobil LLDPE LL 1107X93 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 1107 resins are fractional melt index butane LLDPE blown film resins. Films made with LL 1107 resins have good stiffness and tensile strength. These resins' strength and drawability make them excellent for many film applications. **Availability:** Latin America, North America and South America **Additive:** Antiblock: 3500 ppm Slip: 1000 ppm **Processing Aid:** Yes **Thermal Stabilizer:** Yes **Applications:** Blown Film Garment Film Produce Bags Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-1107X93-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ExxonMobil method
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	3500 ppm	3500 ppm	
Slip Level	1000 ppm	1000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.3 MPa	1500 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	520 %	520 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Puncture Energy	1.05 J	0.775 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	70 g	70 g	ASTM D1922
Elmendorf Tear Strength TD	440 g	440 g	ASTM D1922
Dart Drop Test	60.0 g	0.132 lb	ASTM D1709A
Film Tensile Strength at Break, MD	45.5 MPa	6600 psi	ASTM D882
Film Tensile Strength at Break, TD	26.9 MPa	3900 psi	ASTM D882
1% Secant Modulus, MD	228 MPa	33000 psi	ASTM D882
1% Secant Modulus, TD	262 MPa	38000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 253 °C	<= 487 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003
Gloss	46 %	46 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	7 lbf	ExxonMobil Method

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