

ExxonMobil LDPE LD 102.LC Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 102.LC is a formulated homopolymer, garment film resin with good toughness. It is capable of being drawn down to thing gauges.
Availability: Latin America, North America and South America
Additive: Antiblock: 3000 ppm
Slip: 1200 ppm
Processing Aid: No
Thermal Stabilizer: Yes
Applications: Blown Film, Cast Film, Compounding, Garment Film, Laundry Film
 Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-102LC-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ExxonMobil method
Melt Flow	6.8 g/10 min @Load 2.16 kg, Temperature 190 °C	6.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	3000 ppm	3000 ppm	
Slip Level	1200 ppm	1200 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.65 MPa	1400 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.3 MPa	1500 psi	ASTM D882
Film Elongation at Break, MD	210 %	210 %	ASTM D882
Film Elongation at Break, TD	520 %	520 %	ASTM D882
Puncture Energy	0.203 J	0.150 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	530 g	530 g	ASTM D1922
Elmendorf Tear Strength TD	200 g	200 g	ASTM D1922
Dart Drop Test	60.0 g	0.132 lb	ASTM D1709A
Film Tensile Strength at Break, MD	17.9 MPa	2600 psi	ASTM D882
Film Tensile Strength at Break, TD	14.5 MPa	2100 psi	ASTM D882
1% Secant Modulus, MD	179 MPa	26000 psi	ASTM D882
1% Secant Modulus, TD	207 MPa	30000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	7.8 %	7.8 %	ASTM D1003
Gloss	69 %	69 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	5 lbf	ExxonMobil Method

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