

ExxonMobil LDPE LD 105.BR Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 105 resins are homopolymer packaging film resins designed for applications requiring outstanding clarity with good stiffness. These resins can be processed in either blown or cast film equipment. In blown film equipment LD 105.30 can be drawn down to 1.0 mil gauge.
Availability: Latin America, North America and South America
Additive: Antiblock: 1000 ppm Slip: 750 ppm
Thermal Stabilizer: Yes
Applications: Blend Partner Bread Bags Display Packaging Film Food packaging Form Fill and Seal Packaging Freezer Film High Clarity Film High Quality Lamination Lamination Film Laundry Film Light Duty Shrink Film Produce Bags Salad Bags Textile Packaging Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-105BR-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ExxonMobil method
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	1000 ppm	1000 ppm	
Slip Level	750 ppm	750 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	210 %	210 %	ASTM D882
Film Elongation at Break, TD	570 %	570 %	ASTM D882
Puncture Energy	0.757 J	0.558 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM D1922
Dart Drop Test	100 g	0.221 lb	ASTM D1709A
Film Tensile Strength at Break, MD	24.8 MPa	3600 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 MPa	3100 psi	ASTM D882
1% Secant Modulus, MD	214 MPa	31000 psi	ASTM D882
1% Secant Modulus, TD			ASTM D882

Mechanical Properties	255 MPa Metric	37000 psi English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	<= 232 °C	<= 450 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	5.2 %	5.2 %	ASTM D1003
Gloss	76 %	76 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	8 lbf	ExxonMobil Method

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