

ExxonMobil LDPE LD 123.LN Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 123.LN blown film grade offers an excellent balance of optical and strength properties for general purpose clear film applications.
Availability: Latin America, North America and South America
Additive: Antiblock: NoSlip: NoThermal Stabilizer: Yes
Applications: Bread BagsCo-Extrusion FilmsCollation ShrinkDiaper BacksheetFoamsHigh Performance Collation ShrinkHygiene PackagingLabel FilmLamination FilmOverwrap FilmPaper Overwrap
Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-123LN-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ExxonMobil method
Melt Flow	2.4 g/10 min @Load 2.16 kg, Temperature 190 °C	2.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.7 MPa	1700 psi	ASTM D882
Film Elongation at Break, MD	270 %	270 %	ASTM D882
Film Elongation at Break, TD	660 %	660 %	ASTM D882
Puncture Energy	2.03 J	1.50 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	480 g	480 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Dart Drop Test	100 g	0.221 lb	ASTM D1709A
Film Tensile Strength at Break, MD	28.3 MPa	4100 psi	ASTM D882
Film Tensile Strength at Break, TD	24.1 MPa	3500 psi	ASTM D882
1% Secant Modulus, MD	221 MPa	32000 psi	ASTM D882
1% Secant Modulus, TD	269 MPa	39000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 234 °C	<= 453 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	5.3 %	5.3 %	ASTM D1003
Gloss	72 %	72 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	13 lbf	ExxonMobil Method

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