

ExxonMobil LLDPE LL 3001.63 Linear Low Density Polyethylene Resin

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

Material Notes:

Product Description: LL 3001.36 is a hexane copolymer LLDPE film resin. Films made from this resin have outstanding tensile and toughness properties. Superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. LL3001.63 is formulated for blown film extrusion. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: NoProcessing Aid: Yes **Thermal Stabilizer:** Yes **Applications:** Freezer Film Heavy Duty Bags Ice Bags Stretch Film Trash Bags **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-300163-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ExxonMobil method
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

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	500 %	500 %	ASTM D882
Film Elongation at Break, TD	840 %	840 %	ASTM D882
Puncture Energy	3.05 J	2.25 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	440 g	440 g	ASTM D1922
Elmendorf Tear Strength TD	740 g	740 g	ASTM D1922
Dart Drop Test	140 g	0.309 lb	ASTM D1709A
Film Tensile Strength at Break, MD	57.9 MPa	8400 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882
1% Secant Modulus, MD	200 MPa	29000 psi	ASTM D882
1% Secant Modulus, TD	234 MPa	34000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 255 °C	<= 491 °F	Peak Melting Point; ExxonMobil

Thermal Properties	Metric	English	method Comments
Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	49 %	49 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	9 lbf	ExxonMobil Method

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