

ExxonMobil™ LLDPE LL 1001.32

Linear Low Density Polyethylene Resin

Product Description

LL 1001.32 is a butene LLDPE resin. Films made from LL 1001.32 have very good tensile and toughness properties.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• Antiblock: No • Slip: No	• Processing Aid: No • Thermal Stabilizer: Yes	
Applications	• Cast Film • Cast Stretch Film • Industrial Liners	• Liners • Produce Bags • Refuse Bags	• Trash Bags
Revision Date	• March 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	250 °F	121 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1200 psi	7.9 MPa	ASTM D882
Tensile Strength at Yield TD	1100 psi	7.2 MPa	ASTM D882
Tensile Strength at Break MD	9600 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	4100 psi	29 MPa	ASTM D882
Elongation at Break MD	350 %	350 %	ASTM D882
Elongation at Break TD	810 %	810 %	ASTM D882
Secant Modulus MD - 1% Secant	16000 psi	110 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	130 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709A
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922
Puncture Force	9 lbf	40 N	ExxonMobil Method
Puncture Energy	25 in·lb	2.8 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	90	90	ASTM D2457
Haze	1.7 %	1.7 %	ASTM D1003

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical ExxonMobil™ LLDPE LL 1001.32

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Processing Statement

Film (0.8 mil / 20 micron) obtained on a Black Clawson 3.5 inch cast line at a 5.5 inch melt curtain length, 520-580°F melt temperature, 80°F chill roll temperature and 750 fpm line speed.

Notes

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance:

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