

ExxonMobil™ LLDPE LL 3001.32 Cast

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 3001.32 is an ethylene 1-hexene copolymer linear low density polyethylene resin designed for the blown or cast film process. Films made from LL 3001.32 resin have outstanding tensile and toughness properties. These superior properties, along with excellent drawability, make LL 3001.32 a versatile packaging film resin.

General

Availability ¹	- Latin America - North America
Additive	- Antiblock: No - Slip: No - Processing Aid: No - Thermal Stabilizer: Yes
Applications	- Freezer Film - Heavy Duty Bags - Ice Bags - Trash Bags
Form(s)	Pellets
Revision Date	06/11/2020

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.917 g/cm ³	0.917 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	253 °F	123 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	208 °F	98.0 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1200 psi	8.5 MPa	ASTM D882
Tensile Strength at Yield TD	1200 psi	8.0 MPa	ASTM D882
Tensile Strength at Break MD	9200 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	5900 psi	41 MPa	ASTM D882
Elongation at Break MD	380 %	380 %	ASTM D882
Elongation at Break TD	800 %	800 %	ASTM D882
Secant Modulus MD - 1% Secant	20000 psi	130 MPa	ASTM D882
Secant Modulus TD - 1% Secant	22000 psi	150 MPa	ASTM D882
Dart Drop Impact	110 g	110 g	ASTM D1709A
Elmendorf Tear Strength MD	300 g	300 g	ASTM D1922
Elmendorf Tear Strength TD	690 g	690 g	ASTM D1922
Puncture Force	9 lbf	40 N	ExxonMobil Method
Puncture Energy	30 in-lb	3.4 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	88	88	ASTM D2457
Haze	2.2 %	2.2 %	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.

Processing Statement

Film (0.8 mil / 20 micron) made from LL 3001.32 resin on a 3.5 inch cast film line with a 8.25 inch melt curtain, 80°F (27°C) chill roll temperature at a 160 ft/min (49 m/min) take-off speed and a melt temperature of 560°F (293°C).

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Notes

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

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: www.exxonmobilchemical.com/ContactUs

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