

ExxonMobil™ LLDPE LL 1001.32

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 1001.32 is an ethylene 1-butene linear low density polyethylene resin. Films made from LL 1001.32 resin have very good tensile and toughness properties.

General					
Availability ¹	 Latin America North America 				
Additive	 Antiblock: No 		Processing Aid: No		
	Slip: No		 Thermal Stabilizer: Yes 		
Applications	 Cast Film 		• Liners	 Trash Ba 	ags
	 Cast Stretch Film 		 Produce Bags 		
	 Industrial Liners 		 Refuse Bags 		
Form(s)	Pellets				
Revision Date	• 06/11/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity		g/cm³	71	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)		g/10 min		g/10 min	ASTM D1238
Peak Melting Temperature	250		121		ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	212	°F	100	°C	ExxonMobil Method
Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1200	psi	8.3	MPa	ASTM D882
Tensile Strength at Yield TD	1200	psi	8.4	MPa	ASTM D882
Tensile Strength at Break MD	8500	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	4300	psi	30	MPa	ASTM D882
Elongation at Break MD	390	%	390	%	ASTM D882
Elongation at Break TD	850	%	850	%	ASTM D882
Secant Modulus MD - 1% Secant	20000	psi	140	MPa	ASTM D882
Secant Modulus TD - 1% Secant	23000	psi	160	MPa	ASTM D882
Dart Drop Impact	< 60	9	< 60	g	ASTM D1709A
Elmendorf Tear Strength MD	30	9	30	9	ASTM D1922
Elmendorf Tear Strength TD	450	9	450	g	ASTM D1922
Puncture Force	8	lbf	36	N	ExxonMobil Method
Puncture Energy	23	in·lb	2.6	J	ExxonMobil Method
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	90		90		ASTM D2457
Haze	2.0	%	2.0	%	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 1001.32 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 150 ft/min (46 m/min) take-off speed and a melt temperature of 560°F (293°C).

Effective Date: 06/11/2020 ExxonMobil Page: 1 of 2



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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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