

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 		Processing Aid: No		
	Slip: No		 Thermal Stabilizer: Yes 		
Applications	 Freezer Film 		 Ice Bags 		
	 Heavy Duty 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/cm³	0.917	g/cm³	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		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	9	110	g	ASTM D1709A
Elmendorf Tear Strength MD	300	9	300	g	ASTM D1922
Elmendorf Tear Strength TD	690	9	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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