ExxonMobil™ LLDPE LL 3001.63

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 3001.63 is an ethylene 1-hexene linear low density polyethylene resin formulated for blown film extrusion. Films made from this resin have outstanding tensile and toughness properties. Superior strength properties, along with excellent drawability, make this a very versatile packaging film resin.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: Yes ▪ Thermal Stabilizer: Yes	
Applications	▪ Freezer Film ▪ Heavy Duty Bags	▪ Ice Bags ▪ Stretch Film	▪ Trash Bags
Form(s)	▪ Pellets		
Revision Date	▪ 10/01/2019		

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	255	°F	124	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300	psi	9.3	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.9	MPa	ASTM D882
Tensile Strength at Break MD	7800	psi	50	MPa	ASTM D882
Tensile Strength at Break TD	6800	psi	47	MPa	ASTM D882
Elongation at Break MD	540	%	540	%	ASTM D882
Elongation at Break TD	790	%	790	%	ASTM D882
Secant Modulus MD - 1% Secant	28000	psi	190	MPa	ASTM D882
Secant Modulus TD - 1% Secant	35000	psi	240	MPa	ASTM D882
Dart Drop Impact	170	g	170	g	ASTM D1709A
Elmendorf Tear Strength MD	310	g	310	g	ASTM D1922
Elmendorf Tear Strength TD	710	g	710	g	ASTM D1922
Puncture Force	9	lbf	41	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°)	38		38		ASTM D2457
Haze	13	%	13	%	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 (1.0 mil/25.4 micron) made from LL 3001.63 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395-415°F (202-213°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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