

ExxonMobil™ LLDPE LL 3001.63

Linear Low Density Polyethylene Resin

Product Description

LL3001.63 resin is a hexene copolymer LLDPE film resin. 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. LL3001.63 is formulated for blown film extrusion.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: Yes Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Freezer Film Heavy Duty Bags Ice Bags Stretch Film Trash Bags
Revision Date	<ul style="list-style-type: none"> 08/01/2012

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.917 g/cm ³	0.917 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	255 °F	124 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.3 MPa	ASTM D882
Tensile Strength at Yield TD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	8400 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7000 psi	48 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	840 %	840 %	ASTM D882
Secant Modulus MD - 1% Secant	29000 psi	200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	34000 psi	240 MPa	ASTM D882
Dart Drop Impact	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength MD	440 g	440 g	ASTM D1922
Elmendorf Tear Strength TD	740 g	740 g	ASTM D1922
Puncture Force	9 lbf	40 N	ExxonMobil Method
Puncture Energy	27 in·lb	3.1 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	49	49	ASTM D2457
Haze	15 %	15 %	ASTM D1003

Legal Statement

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

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

Processing Statement

Film (1 mil / 25.4 micron) was made from LL 3001.63 on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 405°F (207°C), a 60 mil die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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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.

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