

ExxonMobil™ LLDPE LL 3003 Series

Linear Low Density Polyethylene Resin

Product Description

LL 3003 resins are hexene copolymer LLDPE cast film resins. Films made from LL 3003 resins have outstanding tensile properties, as well as stiffness and toughness. These superior properties, along with the excellent drawability of these resins, make them versatile packaging film resins.

General

Availability ¹	<ul style="list-style-type: none"> ▪ Latin America ▪ North America
Additive	<ul style="list-style-type: none"> ▪ LL 3003.32: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes ▪ LL 3003.39: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> ▪ Cast Film ▪ Cast Stretch Film ▪ Packaging Films
Revision Date	<ul style="list-style-type: none"> ▪ 03/01/2010

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ASTM D1238
Peak Melting Temperature	254 °F	124 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1000 psi	7.0 MPa	ASTM D882
Tensile Strength at Yield TD	980 psi	6.7 MPa	ASTM D882
Tensile Strength at Break MD	8500 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	5300 psi	36 MPa	ASTM D882
Elongation at Break MD	560 %	560 %	ASTM D882
Elongation at Break TD	830 %	830 %	ASTM D882
Secant Modulus MD - 1% Secant	17000 psi	120 MPa	ASTM D882
Secant Modulus TD - 1% Secant	18000 psi	120 MPa	ASTM D882
Dart Drop Impact	90 g	90 g	ASTM D1709A
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	570 g	570 g	ASTM D1922
Puncture Force	7 lbf	32 N	ExxonMobil Method
Puncture Energy	26 in-lb	2.9 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	91	91	ASTM D2457
Haze	1.7 %	1.7 %	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) obtained on a Black Clawson 3.5 inch cast line at a 5.5 inch melt curtain length, 520-580°F melt temperature, 80°F chill roll temperature and 750 fpm line speed.

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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