

ExxonMobil™ LLDPE LL 1107 Series

Linear Low Density Polyethylene Resin

Product Description

LL 1107 resins are fractional melt index butene LLDPE blown film resins. Films made with LL 1107 resins have good stiffness and tensile strength. These resins' strength and drawability make them excellent for many film applications.

General

Availability ¹	<ul style="list-style-type: none"> ▪ Latin America ▪ North America
Additive	<ul style="list-style-type: none"> ▪ LL 1107X93: Antiblock: 3500 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ LL 1107X95: Antiblock: 3500 ppm; Slip: 1700 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> ▪ Blown Film ▪ Garment Film ▪ Produce Bags
Revision Date	<ul style="list-style-type: none"> ▪ 03/01/2010

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.922 g/cm ³	0.922 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	0.80 g/10 min	0.80 g/10 min	ASTM D1238
Peak Melting Temperature	253 °F	123 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Break MD	6600 psi	46 MPa	ASTM D882
Tensile Strength at Break TD	3900 psi	27 MPa	ASTM D882
Elongation at Break MD	520 %	520 %	ASTM D882
Elongation at Break TD	690 %	690 %	ASTM D882
Secant Modulus MD - 1% Secant	33000 psi	230 MPa	ASTM D882
Secant Modulus TD - 1% Secant	38000 psi	260 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709A
Elmendorf Tear Strength MD	70 g	70 g	ASTM D1922
Elmendorf Tear Strength TD	440 g	440 g	ASTM D1922
Puncture Force	7 lbf	30 N	ExxonMobil Method
Puncture Energy	9.3 in-lb	1.1 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	46	46	ASTM D2457
Haze	18 %	18 %	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 mil / 25.4 micron) was made from LL1107X93 on a 2.5 inch blown film line having a 6 inch die with a 60 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 397-402°F (202-206°C).

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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