

ExxonMobil™ LLDPE LL 3402.48 Blown

Linear Low Density Polyethylene Resin

Product Description

LL3402.48 is a hexene medium density polyethylene blown film grade for applications requiring high stiffness. It can also be used in cast films. Films produced from this resin exhibit good tensile and puncture resistance properties.

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: No Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Agricultural Film Blown Film Diaper Backsheet Overwrap Film
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 06/01/2012

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.942 g/cm ³	0.942 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	263 °F	129 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	2500 psi	17 MPa	ASTM D882
Tensile Strength at Yield TD	3300 psi	23 MPa	ASTM D882
Tensile Strength at Break MD	7100 psi	49 MPa	ASTM D882
Tensile Strength at Break TD	6000 psi	41 MPa	ASTM D882
Elongation at Break MD	770 %	770 %	ASTM D882
Elongation at Break TD	930 %	930 %	ASTM D882
Secant Modulus MD - 1% Secant	79000 psi	550 MPa	ASTM D882
Secant Modulus TD - 1% Secant	100000 psi	700 MPa	ASTM D882
Dart Drop Impact	< 50 g	< 50 g	ASTM D1709A
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922
Puncture Force	5 lbf	23 N	ExxonMobil Method
Puncture Energy	3.5 in-lb	0.39 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	40	40	ASTM D2457
Haze	18 %	18 %	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) made from LL 3402.48 on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 381°F (194°C), a 60 mil (1.52 mm) 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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