

Product Datasheet



ExxonMobil™ LLDPE LL 3402.48 Blown

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 3402.48 is an ethylene 1-hexene medium density polyethylene blown film resin 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	- Latin America - North America
Additive	- Antiblock: No - Processing Aid: No - Slip: No - Thermal Stabilizer: Yes
Applications	- Agricultural Film - Diaper Backsheet - Blown Film - Overwrap Film
Form(s)	Pellets
Revision Date	06/11/2020

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.942 g/cm ³	0.942 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	264 °F	129 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	248 °F	120 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	2800 psi	19 MPa	ASTM D882
Tensile Strength at Yield TD	3500 psi	24 MPa	ASTM D882
Tensile Strength at Break MD	6400 psi	44 MPa	ASTM D882
Tensile Strength at Break TD	5900 psi	41 MPa	ASTM D882
Elongation at Break MD	760 %	760 %	ASTM D882
Elongation at Break TD	990 %	990 %	ASTM D882
Secant Modulus MD - 1% Secant	78000 psi	540 MPa	ASTM D882
Secant Modulus TD - 1% Secant	100000 psi	710 MPa	ASTM D882
Dart Drop Impact	< 60 g	< 60 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	22 N	ExxonMobil Method
Puncture Energy	3.7 in-lb	0.42 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	29	29	ASTM D2457
Haze	22 %	22 %	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 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).

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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.

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

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