ExxonMobil™ LLDPE LL 3402.48 Cast

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 3402.48 is an ethylene 1-hexene medium density polyethylene cast film grade for applications requiring high strength and high stiffness. It can also be used in blown films. Films produced from this resin exhibit good tensile and puncture resistance properties.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes
Applications	▪ Agricultural Film ▪ Cast Film	▪ Diaper Backsheet ▪ 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/cm³	0.942	g/cm³	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	2400	psi	17	MPa	ASTM D882
Tensile Strength at Yield TD	2700	psi	19	MPa	ASTM D882
Tensile Strength at Break MD	8000	psi	50	MPa	ASTM D882
Tensile Strength at Break TD	5300	psi	37	MPa	ASTM D882
Elongation at Break MD	540	%	540	%	ASTM D882
Elongation at Break TD	830	%	830	%	ASTM D882
Secant Modulus MD - 1% Secant	62000	psi	430	MPa	ASTM D882
Secant Modulus TD - 1% Secant	72000	psi	500	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	330	g	330	g	ASTM D1922
Puncture Force	7	lbf	32	N	ExxonMobil Method
Puncture Energy	12	in·lb	1.4	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	84		84		ASTM D2457
Haze	3.9	%	3.9	%	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) made from LL 3402.48 resin on a 3.5 inch cast film line with a 8.25 in (21 cm) melt curtain, 80°F (27°C) chill roll temperature at a 345 ft/min (105 m/min) take-off speed and a melt temperature between 530-560°F (162-171°C).

ExxonMobil™ LLDPE LL 3402.48 Cast
Linear Low Density Polyethylene Resin

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.

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

exxonmobilchemical.com