

ExxonMobil™ LLDPE LL 3404.48

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 3404.48 resin is an ethylene 1-hexene medium density cast film grade for applications requiring high strength and high stiffness. 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 Cast Film Diaper Backsheet Overwrap Film
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 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)	4.3 g/10 min	4.3 g/10 min	ASTM D1238
Peak Melting Temperature	261 °F	127 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	246 °F	119 °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	2500 psi	17 MPa	ASTM D882
Tensile Strength at Break MD	5600 psi	39 MPa	ASTM D882
Tensile Strength at Break TD	4300 psi	30 MPa	ASTM D882
Elongation at Break MD	600 %	600 %	ASTM D882
Elongation at Break TD	810 %	810 %	ASTM D882
Secant Modulus MD - 1% Secant	62000 psi	430 MPa	ASTM D882
Secant Modulus TD - 1% Secant	73000 psi	500 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	4 lbf	16 N	ExxonMobil Method
Puncture Energy	2.4 in-lb	0.27 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	83	83	ASTM D2457
Haze	3.8 %	3.8 %	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 (0.8 mil / 20 micron) made from LL 3404.48 resin on a 3.5 inch cast film line with a 8.25 inch melt curtain, 80°F (27°C) chill roll temperature at a 340 ft/min (104 m/min) take-off speed and a melt temperature of 530°F (277°C).

ExxonMobil™ LLDPE LL 3404.48
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

©2020 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com