Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 1119 Series

Low Density Polyethylene

Product Description

ExxonMobil™ LD 1119 resins are homopolymer industrial film resins with excellent toughness. LD 1119 resins have a low melt index, which provides good impact strength and melt strength over a range of gauges.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ LD 1119.LS: Antiblock: 3000 ppm; Slip: No; Thermal Stabilizer: Yes ▪ LD 1119.PM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Blend Partner ▪ Co-Extrusion Films	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Liners	▪ Medium Duty Shrink Film ▪ Rubber Bale Wrap
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.1	g/10 min	1.1	g/10 min	ASTM D1238
Peak Melting Temperature	226	°F	108	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	196	°F	91.0	°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	1500	psi	10	MPa	ASTM D882
Tensile Strength at Break MD	4500	psi	31	MPa	ASTM D882
Tensile Strength at Break TD	3500	psi	24	MPa	ASTM D882
Elongation at Break MD	250	%	250	%	ASTM D882
Elongation at Break TD	610	%	610	%	ASTM D882
Secant Modulus MD - 1% Secant	29000	psi	200	MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000	psi	260	MPa	ASTM D882
Dart Drop Impact	120	g	120	g	ASTM D1709A
Elmendorf Tear Strength MD	270	g	270	g	ASTM D1922
Elmendorf Tear Strength TD	90	g	90	g	ASTM D1922
Puncture Force	14	lbf	60	N	ExxonMobil Method
Puncture Energy	19	in·lb	2.1	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	54		54		ASTM D2457
Haze	9.2	%	9.2	%	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 (1.5 mil / 38.1 micron) made from LD 1119 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil™ LD 1119 Series
Low Density Polyethylene

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: Contact Us

©2025 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene