

ExxonMobil™ LDPE LD 302 Series

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 302 resins are 3.5 wt% vinyl acetate copolymer, high clarity film resins. The combination of comonomer content and low melt index helps produce films which exhibit superior impact strength, good heat sealability, and good low temperature properties.

General						
Availability ¹	 Latin America 		 North America 			
Additive	 LD 302.56: Antiblock: 3000 ppm; Slip: No; Thermal Stabilizer: Yes LD 302.AJ: Antiblock: 2500 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes LD 302.LS: Antiblock: 3000 ppm; Slip: No; Thermal Stabilizer: Yes 					
Applications	Co-Extrusion FilmsFoamsForm Fill And Seal Page					
Form(s)	 Pellets 					
Revision Date	• 06/17/2020					
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Density		g/cm³		g/cm³	ASTM D1505	
Melt Index (190°C/2.16 kg)	1.3	g/10 min	1.3	g/10 min	ASTM D1238	
Vinyl Acetate Content	3.5	wt%	3.5	wt%	ExxonMobil Method	
Peak Melting Temperature	219	°F	104	°C	ExxonMobil Method	
hermal hermal	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Vicat Softening Temperature	187	°F	86.0	°C	ExxonMobil Method	
ilm Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Tensile Strength at Yield MD	1300			MPa	ASTM D882	
Tensile Strength at Yield TD	1200	psi	8.6	MPa	ASTM D882	
Tensile Strength at Break MD	3600	psi	25	MPa	ASTM D882	
Tensile Strength at Break TD	3200	psi	22	MPa	ASTM D882	
Elongation at Break MD	150	%	150	%	ASTM D882	
Elongation at Break TD	520	%	520	%	ASTM D882	
Secant Modulus MD - 1% Secant	22000	psi	150	MPa	ASTM D882	
Secant Modulus TD - 1% Secant	26000	psi	180	MPa	ASTM D882	
Dart Drop Impact	170	g	170	g	ASTM D1709A	
Elmendorf Tear Strength MD	200	g	200	g	ASTM D1922	
Elmendorf Tear Strength TD	100	g	100	g	ASTM D1922	
Puncture Force	8	lbf	36	N	ExxonMobil Method	
Puncture Energy	5.4	in·lb	0.61	J	ExxonMobil Method	
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Gloss (45°)	71		71		ASTM D2457	
Haze	5.8	%	5.8	%	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).

Effective Date: 06/17/2020 ExxonMobil Page: 1 of 2

ExonMobil

ExxonMobil™ LDPE LD 302 Series Low Density Polyethylene Resin

Processing Statement

Film (1.5 mil/38.1 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 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).

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

©2024 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