

# ExxonMobil™ LDPE LD 102.LC

## Low Density Polyethylene Resin

### Product Description

LD 102.LC is a formulated homopolymer, garment film resin with good toughness. It is capable of being drawn-down to thin gauges.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: 3000 ppm</li> <li>Slip: 2000 ppm</li> <li>Processing Aid: No</li> <li>Thermal Stabilizer: No</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blown Film</li> <li>Cast Film</li> <li>Compounding</li> <li>Garment Film</li> <li>Laundry Film</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>01/01/2013</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.921 g/cm <sup>3</sup>	0.921 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index <sup>2</sup> (190°C/2.16 kg)	6.8 g/10 min	6.8 g/10 min	ExxonMobil Method
Peak Melting Temperature	231 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.9 MPa	ASTM D882
Tensile Strength at Yield TD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	2600 psi	18 MPa	ASTM D882
Tensile Strength at Break TD	2100 psi	14 MPa	ASTM D882
Elongation at Break MD	210 %	210 %	ASTM D882
Elongation at Break TD	520 %	520 %	ASTM D882
Secant Modulus MD	26000 psi	180 MPa	ASTM D882
Secant Modulus TD	30000 psi	210 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709
Elmendorf Tear Strength MD	530 g	530 g	ASTM D1922
Elmendorf Tear Strength TD	200 g	200 g	ASTM D1922
Puncture Force	5 lbf	20 N	ExxonMobil Method
Puncture Energy	1.8 in-lb	0.20 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss	69	69	ASTM D2457
Haze	7.8 %	7.8 %	ASTM D1003

### Additional Information

Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

### 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 (1.5 mil/38.1 micron) made from LD 102.LC on a 2.5 inch (63.5 mm) blown film line with a 2:5:1 blow-up ratio, a melt temperature of 343°F (173°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

ExxonMobil™ LDPE LD 102.LC  
Low Density Polyethylene Resin

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2016 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](http://exxonmobilchemical.com)