

# ExxonMobil™ LDPE LD 159AC

## Low Density Polyethylene Resin

### Product Description

LD 159AC is an LDPE grade, which offers good draw down combined with good mechanical strength.

### General

Availability <sup>1</sup>	▪ Africa & Middle East	▪ Europe	
Additive	▪ Antiblock: 450 ppm	▪ Slip: 500 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Blend Partner ▪ Co-Extrusion Films ▪ Collation Shrink ▪ Food Packaging	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Lamination Film ▪ Medium Duty Shrink Film	▪ Produce Bags ▪ Shoppers
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.924 g/cm <sup>3</sup>	0.924 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	1.2 g/10 min	1.2 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3500 psi	24 MPa	ASTM D882
Tensile Strength at Break TD	2900 psi	20 MPa	ASTM D882
Elongation at Break MD	200 %	200 %	ASTM D882
Elongation at Break TD	510 %	510 %	ASTM D882
Secant Modulus MD - 1% Secant	34000 psi	240 MPa	ASTM D882
Secant Modulus TD - 1% Secant	40000 psi	280 MPa	ASTM D882
Dart Drop Impact	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength MD	450 g	450 g	ASTM D1922
Elmendorf Tear Strength TD	160 g	160 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	62	62	ASTM D2457
Haze	8.5 %	8.5 %	ASTM D1003

### Processing Statement

The test specimen were prepared on LD 159AC, 50µm (1.97mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 180 - 190°C (356 - 374°F).

### 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.

ExxonMobil™ LDPE LD 159AC  
Low Density Polyethylene Resin

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

©2022 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](http://exxonmobilchemical.com)