

# ExxonMobil™ LDPE LD 080 Series

## Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LDPE LD 080 blown film resin is a fractional melt index grade designed for demanding heavy duty film applications. It combines excellent properties with high melt strength, high bubble stability and high throughput.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>▪ Africa &amp; Middle East</li> <li>▪ Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>▪ Europe</li> <li>▪ Latin America</li> </ul>	<ul style="list-style-type: none"> <li>▪ North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>▪ LD 080.LT: Antiblock: Yes; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes</li> <li>▪ LD 080.BW1: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes</li> </ul>		
Applications	<ul style="list-style-type: none"> <li>▪ Agricultural Film</li> <li>▪ Blend Partner</li> <li>▪ Collation Shrink</li> <li>▪ Construction Film</li> </ul>	<ul style="list-style-type: none"> <li>▪ Construction Liners</li> <li>▪ Food Packaging</li> <li>▪ Geomembrane</li> <li>▪ Heavy Duty Bags</li> </ul>	<ul style="list-style-type: none"> <li>▪ Pallet Shrink Film</li> <li>▪ Zipper Bag</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>▪ Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>▪ 06/07/2022</li> </ul>		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.920 g/cm <sup>3</sup>	0.920 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	0.18 g/10 min	0.18 g/10 min	ASTM D1238
Peak Melting Temperature	231 °F	111 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	11 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.5 MPa	ASTM D882
Tensile Strength at Break MD	3300 psi	23 MPa	ASTM D882
Tensile Strength at Break TD	2900 psi	20 MPa	ASTM D882
Elongation at Break MD	100 %	100 %	ASTM D882
Elongation at Break TD	520 %	520 %	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	170 MPa	ASTM D882
Secant Modulus TD - 1% Secant	32000 psi	220 MPa	ASTM D882
Dart Drop Impact	160 g	160 g	ASTM D1709A
Elmendorf Tear Strength MD	290 g	290 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922
Puncture Force	12 lbf	52 N	ExxonMobil Method
Puncture Energy	6.9 in-lb	0.78 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	30	30	ASTM D2457
Haze	22 %	22 %	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 (2 mil/50.8 micron) made from ExxonMobil™ LD 080 resin on a 2.5 in (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of ~381°F (194°C), a 20 mil (0.508 mm) die gap at a rate of ~150 lbs/hr.

### 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 080 Series  
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)