

## ExxonMobil™ LDPE LD 100.BW

## Low Density Polyethylene Resin

## Product Description

LD 100.BW is a LDPE grade, offering a good balance of optical and mechanical properties.

## General

|                           |  |   |   |
|---------------------------|--|---|---|
| Availability <sup>1</sup> | ▪ Latin America  | ▪ North America   |   |
| Additive                  | ▪ Antiblock: No  | ▪ Slip: No  | ▪ Thermal Stabilizer: Yes   |
| Applications              | ▪ Blend Partner<br>▪ Cast Film<br>▪ Compounding<br>▪ Foams<br>▪ Form Fill And Seal Packaging | ▪ Freezer Film<br>▪ Lamination Film<br>▪ Light Duty Shrink Film<br>▪ Liners<br>▪ Mail Bag | ▪ Produce Bags<br>▪ Shoppers<br>▪ Textile Packaging<br>▪ Tough Medium Sized Molding |
| Revision Date             | ▪ 04/01/2018   |   |   |

## Resin Properties

|                            | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.923 g/cm <sup>3</sup> | 0.923 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min            | 2.0 g/10 min            | ASTM D1238        |
| Peak Melting Temperature   | 228 °F                  | 109 °C                  | ExxonMobil Method |

## Thermal

|                             | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 196 °F                  | 91 °C              | ASTM D1525    |

## 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  | 1600 psi                | 11 MPa             | ASTM D882         |
| Tensile Strength at Break MD  | 4300 psi                | 30 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 3300 psi                | 23 MPa             | ASTM D882         |
| Elongation at Break MD        | 240 %                   | 240 %              | ASTM D882         |
| Elongation at Break TD        | 550 %                   | 550 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 30000 psi               | 200 MPa            | ASTM D882         |
| Secant Modulus TD - 1% Secant | 37000 psi               | 260 MPa            | ASTM D882         |
| Dart Drop Impact              | 110 g                   | 110 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                | 11 lbf                  | 48 N               | ExxonMobil Method |
| Puncture Energy               | 12 in-lb                | 1.3 J              | ExxonMobil Method |

## Optical Properties

|             | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 69                      | 69                 | ASTM D2457    |
| Haze        | 5.6 %                   | 5.6 %              | 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 100.BW resins 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.

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 100.BW**  
Low Density Polyethylene Resin

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

©2019 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)

