

Product Datasheet



ExxonMobil™ LDPE LD 144BR

Low Density Polyethylene Resin

Product Description

LD144BR is an LDPE grade, which offers excellent optical properties combined with increased stiffness and drawdown properties.

General

Availability ¹	- Africa & Middle East - Asia Pacific - Europe
Additive	- Antiblock: 1000 ppm - Slip: 750 ppm - Thermal Stabilizer: Yes
Applications	- Blend Partner - Bread Bags - Cast Film - Co-Extrusion Films - Display Packaging Film - Food Packaging - Form Fill And Seal Packaging - High Clarity Film - Laundry Film - Light Duty Shrink Film - Mail Bag - Overwrap Film - Produce Bags - Salad Bags
Revision Date	01/01/2017

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.927 g/cm ³	0.927 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	3.1 g/10 min	3.1 g/10 min	ASTM D1238
Peak Melting Temperature	233 °F	112 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1900 psi	13 MPa	ASTM D882
Tensile Strength at Yield TD	1800 psi	13 MPa	ASTM D882
Tensile Strength at Break MD	3600 psi	25 MPa	ASTM D882
Tensile Strength at Break TD	2400 psi	17 MPa	ASTM D882
Elongation at Break MD	150 %	150 %	ASTM D882
Elongation at Break TD	480 %	480 %	ASTM D882
Secant Modulus MD - 1% Secant	37000 psi	260 MPa	ASTM D882
Secant Modulus TD - 1% Secant	44000 psi	310 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709A
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	72	72	ASTM D2457
Haze	6.2 %	6.2 %	ASTM D1003

Processing Statement

The film properties have been measured on a 30 µm (1.18 mil) thick film (Blow-up ratio : 2.5) using a 200mm (7.9 inch) die, die gap of 1.0mm and a temperature profile of 180 - 190°C (356 - 374 °F)

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.

Product Datasheet

ExxonMobil**ExxonMobil™ LDPE LD 144BR**
Low Density Polyethylene ResinFor 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