

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

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.927 g/cm <sup>3</sup> | 0.927 g/cm <sup>3</sup> | 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.

<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.

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

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