

## Product Datasheet



# ExxonMobil™ LDPE LD 104BR

## Low Density Polyethylene Resin

### Product Description

LD 104BR is an LDPE grade, which offers good optical properties combined with increased stiffness.

### General

|                           |                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> </ul>                                                                                                                                                                                                                                                                   |
| Additive                  | <ul style="list-style-type: none"> <li>Antiblock: 1000 ppm</li> <li>Slip: 750 ppm</li> <li>Thermal Stabilizer: Yes</li> </ul>                                                                                                                                                                                                                                                      |
| Applications              | <ul style="list-style-type: none"> <li>Blend Partner</li> <li>Bread Bags</li> <li>Display Packaging Film</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> <li>Freezer Film</li> <li>High Clarity Film</li> <li>Lamination Film</li> <li>Light Duty Shrink Film</li> <li>Mail Bag</li> <li>Produce Bags</li> <li>Salad Bags</li> <li>Textile Packaging</li> </ul> |
| Revision Date             | 01/01/2017                                                                                                                                                                                                                                                                                                                                                                         |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.925 g/cm <sup>3</sup> | 0.925 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   | 232 °F                  | 111 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Break MD  | 4000 psi                | 28 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 2600 psi                | 18 MPa             | ASTM D882     |
| Elongation at Break MD        | 120 %                   | 120 %              | ASTM D882     |
| Elongation at Break TD        | 470 %                   | 470 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 37000 psi               | 260 MPa            | ASTM D882     |
| Secant Modulus TD - 1% Secant | 47000 psi               | 320 MPa            | ASTM D882     |
| Dart Drop Impact              | 70 g                    | 70 g               | ASTM D1709A   |
| Elmendorf Tear Strength MD    | 370 g                   | 370 g              | ASTM D1922    |
| Elmendorf Tear Strength TD    | 80 g                    | 80 g               | ASTM D1922    |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 62                      | 62                 | ASTM D2457    |
| Haze               | 7.4 %                   | 7.4 %              | ASTM D1003    |

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

### Processing Statement

The test specimen were prepared on LD 104BR, 30µm (1.18mil) 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.

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**ExxonMobil****ExxonMobil™ LDPE LD 104BR**  
Low Density Polyethylene ResinFor additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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