

## ExxonMobil LDPE LD 100BW Low Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

### Material Notes:

**Product Description:** LD 100 series are LDPE grades, offering a good balance of optical and mechanical properties. Several additive packages are available according to the required surface properties. **Availability:** Africa & Middle East, Asia Pacific and Europe **Additive:** Antiblock: NoSlip: NoThermal Stabilizer: Yes **Applications:** Blend PartnerCast FilmCompoundingFoamsFood packagingForm Fill and Seal PackagingFreezer FilmLamination FilmLight Duty Shrink FilmLinersMail BagProduce BagsShoppersTextile PackagingTough Medium Sized **Molding Information provided by ExxonMobil**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LDPE-LD-100BW-Low-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-100BW-Low-Density-Polyethylene-Resin.php)

| Physical Properties | Metric                               | English                              | Comments          |
|---------------------|--------------------------------------|--------------------------------------|-------------------|
| Density             | 0.923 g/cc                           | 0.0333 lb/in <sup>3</sup>            | ExxonMobil method |
| Melt Flow           | 2.0 g/10 min                         | 2.0 g/10 min                         | ASTM D1238        |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |                   |

| Mechanical Properties              | Metric   | English   | Comments    |
|------------------------------------|----------|-----------|-------------|
| Film Tensile Strength at Yield, MD | 11.0 MPa | 1600 psi  | ASTM D882   |
| Film Tensile Strength at Yield, TD | 11.0 MPa | 1600 psi  | ASTM D882   |
| Film Elongation at Break, MD       | 330 %    | 330 %     | ASTM D882   |
| Film Elongation at Break, TD       | 550 %    | 550 %     | ASTM D882   |
| Elmendorf Tear Strength MD         | 150 g    | 150 g     | ASTM D1922  |
| Elmendorf Tear Strength TD         | 120 g    | 120 g     | ASTM D1922  |
| Dart Drop Test                     | 80.0 g   | 0.176 lb  | ASTM D1709A |
| Film Tensile Strength at Break, MD | 24.8 MPa | 3600 psi  | ASTM D882   |
| Film Tensile Strength at Break, TD | 22.1 MPa | 3200 psi  | ASTM D882   |
| 1% Secant Modulus, MD              | 207 MPa  | 30000 psi | ASTM D882   |
| 1% Secant Modulus, TD              | 228 MPa  | 33000 psi | ASTM D882   |

| Thermal Properties | Metric    | English   | Comments                              |
|--------------------|-----------|-----------|---------------------------------------|
| Melting Point      | <= 230 °C | <= 446 °F | Peak Melting Point; ExxonMobil method |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 6.1 %  | 6.1 %   | ASTM D1003      |
| Gloss              | 63 %   | 63 %    | 45°; ASTM D2457 |

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