

## ExxonMobil LDPE LD 104BR Low Density Polyethylene Resin

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

### Material Notes:

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

Africa & Middle East, Asia Pacific and Europe Additive: Antiblock: 1000 ppmSlip: 750 ppmThermal Stabilizer: YesApplications: Blend

PartnerBread BagsDisplay Packaging FilmFood packagingForm Fill and Seal PackagingFreezer FilmHigh Clarity FilmLamination FilmLight

Duty Shrink Film Mail BagProduce BagsSalad BagsTextile PackagingInformation provided by ExxonMobil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LDPE-LD-104BR-Low-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-104BR-Low-Density-Polyethylene-Resin.php)

| Physical Properties | Metric                                               | English                                              | Comments          |
|---------------------|------------------------------------------------------|------------------------------------------------------|-------------------|
| Density             | 0.925 g/cc                                           | 0.0334 lb/in <sup>3</sup>                            | ExxonMobil method |
| Melt Flow           | 2.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 2.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238        |
| Antiblock Level     | 1000 ppm                                             | 1000 ppm                                             |                   |
| Slip Level          | 750 ppm                                              | 750 ppm                                              |                   |

| Mechanical Properties              | Metric   | English   | Comments    |
|------------------------------------|----------|-----------|-------------|
| Film Elongation at Break, MD       | 200 %    | 200 %     | ASTM D882   |
| Film Elongation at Break, TD       | 500 %    | 500 %     | ASTM D882   |
| Elmendorf Tear Strength MD         | 200 g    | 200 g     | ASTM D1922  |
| Elmendorf Tear Strength TD         | 120 g    | 120 g     | ASTM D1922  |
| Dart Drop Test                     | 70.0 g   | 0.154 lb  | ASTM D1709A |
| Film Tensile Strength at Break, MD | 24.1 MPa | 3500 psi  | ASTM D882   |
| Film Tensile Strength at Break, TD | 19.3 MPa | 2800 psi  | ASTM D882   |
| 1% Secant Modulus, MD              | 241 MPa  | 35000 psi | ASTM D882   |
| 1% Secant Modulus, TD              | 283 MPa  | 41000 psi | ASTM D882   |

| Thermal Properties | Metric    | English   | Comments                              |
|--------------------|-----------|-----------|---------------------------------------|
| Melting Point      | <= 232 °C | <= 450 °F | Peak Melting Point; ExxonMobil method |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Optical Properties | Metric | English | Comments <sup>13</sup> |
|--------------------|--------|---------|------------------------|
| Gloss              | 68 %   | 68 %    | 45°; ASTM D2457        |

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