

ExxonMobil™ LDPE LD 100 Series Blown

Low Density Polyethylene Resin

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.

General

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe |
| Additive | <ul style="list-style-type: none"> LD 100AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes LD 100BR: Antiblock: 1000 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes LD 100BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Blend Partner Cast Film Compounding Foams Food Packaging Form Fill And Seal Packaging Freezer Film Lamination Film Light Duty Shrink Film Liners Mail Bag Produce Bags Shoppers Textile Packaging Tough Medium Sized Molding |
| Revision Date | <ul style="list-style-type: none"> 03/01/2013 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.923 g/cm ³ | 0.923 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 230 °F | 110 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD | 1600 psi | 11 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1600 psi | 11 MPa | ASTM D882 |
| Tensile Strength at Break MD | 3600 psi | 25 MPa | ASTM D882 |
| Tensile Strength at Break TD | 3200 psi | 22 MPa | ASTM D882 |
| Elongation at Break MD | 330 % | 330 % | ASTM D882 |
| Elongation at Break TD | 550 % | 550 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 30000 psi | 210 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 33000 psi | 230 MPa | ASTM D882 |
| Dart Drop Impact | 80 g | 80 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 150 g | 150 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°) | 63 | 63 | ASTM D2457 |
| Haze | 6.1 % | 6.1 % | 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

Film (1.5 mil/38.1 micron) made from LD 100.BW resins on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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.

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