

ExxonMobil™ LDPE LD 150 Series

Low Density Polyethylene Resin

Product Description

LD 150 series are LDPE grades, offering good blend mechanical properties and stiffness. Several additive packages are available according to the required surface properties.

General

| | | | |
|---------------------------|--|--|--|
| Availability ¹ | ▪ Africa & Middle East | ▪ Asia Pacific | ▪ Europe |
| Additive | ▪ LD 150BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 150AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes | | |
| Applications | ▪ Agricultural Film ▪ Blend Partner ▪ Co-Extrusion Films | ▪ Collation Shrink ▪ Form Fill And Seal Packaging ▪ Freezer Film | ▪ Lamination Film ▪ Medium Duty Shrink Film ▪ Shoppers |
| Form(s) | ▪ Pellets | | |
| Revision Date | ▪ 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 | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 0.75 g/10 min | 0.75 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 228 °F | 109 °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 | 3200 psi | 22 MPa | ASTM D882 |
| Elongation at Break MD | 310 % | 310 % | ASTM D882 |
| Elongation at Break TD | 530 % | 530 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 35000 psi | 240 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 41000 psi | 280 MPa | ASTM D882 |
| Dart Drop Impact | 190 g | 190 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 350 g | 350 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 150 g | 150 g | ASTM D1922 |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 59 | 59 | ASTM D2457 |
| Haze | 8.5 % | 8.5 % | ASTM D1003 |

Legal Statement

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

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

Processing Statement

The test specimen were prepared on LD 150BW, 50µm (1.97mil) 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.

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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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