

ExxonMobil™ LDPE LD 158 Series

Low Density Polyethylene Resin

Product Description

LD 158 series are LDPE grades, specially designed for lamination and co-extruded films. They offer good mechanical, stiffness and optical properties, combined with very low gel level. These grades have a Film Appearance specification. Two additive packages are available tailored to the needs of the laminator. LD 158 is manufactured with narrow specifications to suit the high consistency requirements of lamination films.

General

| | |
|---------------------------|---|
| Availability ¹ | <ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Europe |
| Additive | <ul style="list-style-type: none"> ▪ LD 158BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 158JD: Antiblock: 1800 ppm; Slip: 330 ppm; Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> ▪ Bread Bags ▪ Co-Extrusion Films ▪ Display Packaging Film ▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ High Clarity Film ▪ High Quality Lamination ▪ Lamination Film |
| Revision Date | <ul style="list-style-type: none"> ▪ 03/01/2013 |

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

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Break MD | 3300 psi | 23 MPa | ASTM D882 |
| Tensile Strength at Break TD | 3000 psi | 21 MPa | ASTM D882 |
| Elongation at Break MD | 200 % | 200 % | ASTM D882 |
| Elongation at Break TD | 500 % | 500 % | 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 | 80 g | 80 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 200 g | 200 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°) | 69 | 69 | ASTM D2457 |
| Haze | 5.0 % | 5.0 % | 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 158BW, 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 140 - 170°C (284 - 338°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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