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Product Datasheet

ExxonMobil™ LDPE LD 117 Series



Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 117 are homopolymer film resins with good clarity and excellent stiffness. Film made from LD 117 resins can be used in overwrap applications and in push-through type packaging equipment. With a narrow die gap, film produced from LD 117 resins can be drawn down to 1.0 mil gauge.

| Connect | | | | | | |
|------------------------------------|---|---|---|-------------------|----------------------|--|
| General Availability ¹ | Latin America | _ | North America | | | |
| Additive | | | | | | |
| Additive | | LD 117.NM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes LD 117.JJ: Antiblock: 1000 ppm; Slip: 250 ppm; Thermal Stabilizer: Yes | | | | |
| Applications | Bread BagsCo-Extrusion FilmsCollation ShrinkDiaper Backsheet | | Foams High Performance Collation Shrink Hygiene Packaging Lamination Film Overwrap Film Paper Overwrap Label Film | | | |
| Revision Date | • 06/17/2020 | | | | | |
| Resin Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On | |
| Density | 0.929 | g/cm³ | 0.929 | g/cm ³ | ASTM D1505 | |
| Melt Index (190°C/2.16 kg) | | g/10 min | | g/10 min | ASTM D1238 | |
| Peak Melting Temperature | 241 | °F | 116 | | ExxonMobil Method | |
| | | | | | | |
| Thermal | Typical Value | | Typical Value | | Test Based On | |
| Vicat Softening Temperature | 219 | °F | 104 | °C | ExxonMobil Method | |
| Film Properties | Typical Value | (Enalish) | Typical Value | (SI) | Test Based On | |
| Tensile Strength at Yield MD | 2000 | | | MPa | ASTM D882 | |
| Tensile Strength at Yield TD | 2300 | | 16 | MPa | ASTM D882 | |
| Tensile Strength at Break MD | 3600 | | 25 | MPa | ASTM D882 | |
| Tensile Strength at Break TD | 2600 | | 18 | MPa | ASTM D882 | |
| Elongation at Break MD | 170 | % | 170 | % | ASTM D882 | |
| Elongation at Break TD | 510 | % | 510 | % | ASTM D882 | |
| Secant Modulus MD - 1% Secant | 46000 | psi | 320 | MPa | ASTM D882 | |
| Secant Modulus TD - 1% Secant | 54000 | psi | 380 | MPa | ASTM D882 | |
| Dart Drop Impact | 80 | g | 80 | g | ASTM D1709A | |
| Elmendorf Tear Strength MD | 190 | | 190 | | ASTM D1922 | |
| Elmendorf Tear Strength TD | 240 | | 240 | | ASTM D1922 | |
| Puncture Force | | lbf | 31 | | ExxonMobil Method | |
| Puncture Energy | 3.0 | in·lb | 0.34 | J | ExxonMobil Method | |
| | | | | | | |
| Optical Properties | Typical Value | | Typical Value | (SI) | Test Based On | |
| Gloss (45°) | 68 | | 68 | | ASTM D2457 | |
| Haze | 7.1 | % | 7.1 | % | 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

Film (1.5 mil/38.1 micron) made from LD 117.85 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 350-370°F (177-188°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

Effective Date: 06/17/2020 ExxonMobil Page: 1 of 2



ExxonMobil™ LDPE LD 117 Series Low Density Polyethylene Resin

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.

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

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