

ExxonMobil™ LDPE LD 157CW Blown

Low Density Polyethylene Resin

Product Description

LD 157CW offers good mechanical properties as well as excellent opticals.

General

| | | | |
|---------------------------|--------------------------------------|--|---------------------------|
| Availability ¹ | ▪ Africa & Middle East | ▪ Europe | |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Co-Extrusion Films ▪ Label Film | ▪ Lamination Film ▪ Medium Duty Shrink Film | ▪ Overwrap Film |
| Revision Date | ▪ 03/01/2013 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.931 g/cm ³ | 0.931 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 0.60 g/10 min | 0.60 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 239 °F | 115 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield TD | 2300 psi | 16 MPa | ASTM D882 |
| Tensile Strength at Break MD | 4100 psi | 29 MPa | ASTM D882 |
| Tensile Strength at Break TD | 3200 psi | 22 MPa | ASTM D882 |
| Elongation at Break MD | 350 % | 350 % | ASTM D882 |
| Elongation at Break TD | 550 % | 550 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 49000 psi | 340 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 57000 psi | 390 MPa | ASTM D882 |
| Dart Drop Impact | 100 g | 100 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 200 g | 200 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 230 g | 230 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 65 | 65 | ASTM D2457 |
| Haze | 7.0 % | 7.0 % | 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 157CW, 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.