

ExxonMobil™ LDPE LD 051.LQ

Low Density Polyethylene Resin

Product Description

LD 051.LQ blown film resin is a fractional melt index grade designed for demanding heavy duty film applications, and combine excellent strength properties with outstanding processability.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> LD 051.LQ: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: No |
| Applications | <ul style="list-style-type: none"> Agricultural Film Blend Partner Collation Shrink Construction Film Heavy Duty Bags Pallet Shrink Film Zipper Bag |
| Revision Date | <ul style="list-style-type: none"> 03/01/2010 |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.919 g/cm ³ | 0.919 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 0.25 g/10 min | 0.25 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 | 1500 psi | 10 MPa | ASTM D882 |
| Tensile Strength at Break MD | 3700 psi | 26 MPa | ASTM D882 |
| Tensile Strength at Break TD | 3500 psi | 24 MPa | ASTM D882 |
| Elongation at Break MD | 130 % | 130 % | ASTM D882 |
| Elongation at Break TD | 570 % | 570 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 27000 psi | 180 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 35000 psi | 240 MPa | ASTM D882 |
| Dart Drop Impact | 190 g | 190 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 280 g | 280 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°) | 33 | 33 | ASTM D2457 |
| Haze | 20 % | 20 % | 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 (2 mil / 50.8 micron) made from LD 051.LQ on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 387F (198C).

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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