

Icelene LD224 Low Density Polyethylene Resin

Applications:

Bakery Film, Compounding
Foams, Blending resin

Additive packages

Slip (750 ppm), Antiblock (1000ppm)
Antioxidant

PRODUCT DESCRIPTION

LD224 is designed for blown and cast film applications with good balance of optical and mechanical properties for general purpose clarity packaging. LD224 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR.177.1520 ,covering safe use of polyolefins articles intended for direct food contact.

| Properties* | Value (SI) | Value (English) | Method |
|--|-------------------------|-------------------------|-------------|
| Melt Index (190°C/2.16kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Density | 0.924 g/cm ³ | 0.924 g/cm ³ | ASTM D1505 |
| Tensile strength at yield MD | 1500 psi | 10 MPa | ASTM D882 |
| Tensile strength at yield TD | 1600 psi | 11 MPa | ASTM D882 |
| Tensile strength at break MD | 3600 psi | 25 MPa | ASTM D882 |
| Tensile strength at break TD | 2700 psi | 19 MPa | ASTM D882 |
| Elongation MD | 130% | 130% | ASTM D882 |
| Elongation TD | 490% | 490% | ASTM D882 |
| 1% Secant Modulus MD | 30000 psi | 210 MPa | ASTM D882 |
| 1% Secant Modulus TD | 37000 psi | 260 MPa | ASTM D882 |
| Elmendorf Tear MD | 440 g | 440 g | ASTM D1922 |
| Elmendorf Tear TD | 110 g | 110 g | ASTM D1922 |
| Dart Drop Impact Strength (F ₅₀) | 120 g | 120 g | ASTM D1709A |
| Haze | 6% | 6% | ASTM D1003 |
| Gloss (45°) | 69 | 69 | ASTM D2457 |

* Typical Value of Properties which can vary with in specification limits and are not to be construed as specifications.

The above values were measured on a 1.5 mil (38.1 µm) film produced on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 BUR using a die gap of 30 mil (0.8mm) die gap.

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