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Chemical

# ExxonMobil® LDPE

## LD 100 series

Low Density Polyethylene for blown film applications

ExxonMobil

### Key features

LD 100 series are LDPE grades, offering a good balance of optical and mechanical properties.

Several additive packages are available according to the required surface properties.

They are typically used in produce bags, T-shirt carrier bags, display packaging and light duty shrink film.

### Recommended blown film extrusion conditions

- Melt temperature : 160 - 180 °C
- Blow-up ratio : 2.5 : 1 (or higher)
- Film thickness range : 25 - 60 µm

## Additive packages

| | Antiblock (ppm) | Slip (ppm) | Stabilizer (non BHT) |
|---|---|---|---|
| LD 100 BW | - | - | + |
| LD 100 AC | 450 | 500 (*) | + |
| LD 100 BR | 1000 | 750 (*) | + |

(*) Erucamide

## Typical values

| General properties | | Test Method (based on) | Unit | Typical Value |
|---|---|---|---|---|
| Melt Index | | ASTM D 1238 | g/10 min | 2 |
| Density | | ASTM D 2839/1505 | $g/cm^3$ | 0.923 |
| Melting Point (DSC) | | ASTM D 3418 | °C | 109 |
| Crystallization Point (DSC) | | ASTM D 3418 | °C | 95 |
| **Film properties** | | | | |
| Tensile Strength at Break | MD / TD | ASTM D 882 | MPa | 27 / 22 |
| Elongation at Break | MD / TD | ASTM D 882 | % | 270 /580 |
| 1 % Secant Modulus | MD / TD | ASTM D 882 | MPa | 210 / 250 |
| Haze | | ASTM D 1003 | % | 6 |
| Gloss (60° angle) | | ASTM D 2457 | % | 10 |
| Clarity | | ASTM D 1746 | % | 60 |
| Dart Drop Impact (A/Face) | | ASTM D 1709 | g/µm | 2.5 |
| Elmendorf Tear Strength | MD / TD | ASTM D 1922 | g/µm | 5.8 / 3.6 |

The film properties have been measured on a 30 µm thick film LD 100 BW (Blow-up ratio : 2.5)

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