

# ExxonMobil LDPE

## LD 123.LN

### General Purpose Clarity Film Resin

#### Description

ExxonMobil LD 123.LN blown film grade offers an excellent balance of optical and strength properties for general purpose clear film applications.

#### Applications

- Clarity films
- Sandwich bags
- Food packaging films

| Additive Package | Antiblock | Slip | Thermal Stabilizer |
|------------------|-----------|------|--------------------|
| LD 123.LN        | No        | No   | No                 |

| Resin Properties         | Test Based On     | Typical Value / Unit    |
|--------------------------|-------------------|-------------------------|
| Melt Index               | ASTM D 1238       | 2.4 g/10 min            |
| Density                  | ExxonMobil Method | 0.923 g/cm <sup>3</sup> |
| Peak Melting Temperature | ExxonMobil Method | 112 °C      233 °F      |

#### Film Properties (@ thickness 38 μ (1.5 mil) )

|                                |    |              |          |           |
|--------------------------------|----|--------------|----------|-----------|
| Tensile Strength at Yield      | MD | ASTM D 882   | 11.2 MPa | 1630 psi  |
|                                | TD |              | 11.7 MPa | 1700 psi  |
| Tensile Strength at Break      | MD | ASTM D 882   | 28.6 MPa | 4150 psi  |
|                                | TD |              | 24 MPa   | 3480 psi  |
| Elongation at Break            | MD | ASTM D 882   | 270 %    |           |
|                                | TD |              | 660 %    |           |
| 1% Secant Modulus              | MD | ASTM D 882   | 220 MPa  | 31900 psi |
|                                | TD |              | 269 MPa  | 39000 psi |
| Haze                           |    | ASTM D 1003  | 5.3 %    |           |
| Gloss MD, 45°                  |    | ASTM D 2457  | 72       |           |
| Dart Drop Impact Strength, F50 |    | ASTM D 1709A | 100 g    |           |
| Elmendorf Tear Strength        | MD | ASTM D 1922  | 480 g    |           |
|                                | TD |              | 120 g    |           |

Film made from LD 123.LN 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 363°F (184°C).

LD 123.LN can - in principle - be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

Revised January 2006