

## Product Datasheet



# ExxonMobil™ LDPE LD 156 Series

## Low Density Polyethylene Resin

### Product Description

LD 156 series are LDPE grades, specially designed for lamination films and co-extruded films. They offer good mechanical, stiffness and optical properties, combined with very low gel level. These grades have a Film Appearance specification. Two additive packages are available tailored to the needs of the laminator. LD 156 is manufactured with narrow specifications to suit the high consistency requirements of lamination films.

### General

|                           |                                                                                                                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Europe</li> </ul>                                                                                                                                                                                                     |
| Additive                  | <ul style="list-style-type: none"> <li>LD 156BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes</li> <li>LD 156HE: Antiblock: 1500 ppm; Slip: 550 ppm; Thermal Stabilizer: Yes</li> </ul>                                                                                                    |
| Applications              | <ul style="list-style-type: none"> <li>Blend Partner</li> <li>Co-Extrusion Films</li> <li>Collation Shrink</li> <li>Form Fill And Seal Packaging</li> <li>Freezer Film</li> <li>High Quality Lamination</li> <li>Lamination Film</li> <li>Medium Duty Shrink Film</li> <li>Shoppers</li> </ul> |
| Revision Date             | 01/01/2017                                                                                                                                                                                                                                                                                     |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.926 g/cm <sup>3</sup> | 0.926 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 0.75 g/10 min           | 0.75 g/10 min           | ASTM D1238        |
| Peak Melting Temperature   | 234 °F                  | 112 °C                  | ExxonMobil Method |

| Film Properties               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Break MD  | 3900 psi                | 27 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 3200 psi                | 22 MPa             | ASTM D882     |
| Elongation at Break MD        | 290 %                   | 290 %              | ASTM D882     |
| Elongation at Break TD        | 520 %                   | 520 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 37000 psi               | 260 MPa            | ASTM D882     |
| Secant Modulus TD - 1% Secant | 43000 psi               | 290 MPa            | ASTM D882     |
| Dart Drop Impact              | 140 g                   | 140 g              | ASTM D1709A   |
| Elmendorf Tear Strength MD    | 380 g                   | 380 g              | ASTM D1922    |
| Elmendorf Tear Strength TD    | 190 g                   | 190 g              | ASTM D1922    |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°)        | 64                      | 64                 | ASTM D2457    |
| Haze               | 6.9 %                   | 6.9 %              | 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 156BW, 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.

<sup>1</sup> 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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**ExxonMobil**ExxonMobil™ LDPE LD 156 Series  
Low Density Polyethylene ResinFor additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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