

# ExxonMobil™ LDPE LD 071 Series

## Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LD 071 case wrap film resins combine good processability with excellent strength and good film optics for bundling applications requiring proper shrink performance, toughness and burn-through resistance and clarity.

### General

|                           |  |
|---------------------------|--|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>   |
| Additive                  | <ul style="list-style-type: none"> <li>LD 071.LQ: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: No</li> <li>LD 071.LR: Antiblock: 2000 ppm; Slip: No; Thermal Stabilizer: No</li> </ul>   |
| Applications              | <ul style="list-style-type: none"> <li>Blend Partner</li> <li>Co-Extrusion Films</li> <li>Collation Shrink</li> <li>Construction Film</li> <li>Form Fill And Seal Packaging</li> <li>Freezer Film</li> <li>Lamination Film</li> <li>Medium Duty Shrink Film</li> <li>Pallet Shrink Film</li> </ul> |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>  |
| Revision Date             | <ul style="list-style-type: none"> <li>06/17/2020</li> </ul>   |

### Resin Properties

|                            | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.924 g/cm <sup>3</sup> | 0.924 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 0.70 g/10 min           | 0.70 g/10 min           | ASTM D1238        |
| Peak Melting Temperature   | 234 °F                  | 112 °C                  | ExxonMobil Method |

### Thermal

|                                       | Typical Value (English) | Typical Value (SI) | Test Based On     |
|---------------------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature (A (10N)) | 203 °F                  | 95.0 °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  | 1700 psi                | 11 MPa             | ASTM D882         |
| Tensile Strength at Break MD  | 3700 psi                | 25 MPa             | ASTM D882         |
| Tensile Strength at Break TD  | 3100 psi                | 22 MPa             | ASTM D882         |
| Elongation at Break MD        | 140 %                   | 140 %              | ASTM D882         |
| Elongation at Break TD        | 530 %                   | 530 %              | ASTM D882         |
| Secant Modulus MD - 1% Secant | 34000 psi               | 230 MPa            | ASTM D882         |
| Secant Modulus TD - 1% Secant | 40000 psi               | 280 MPa            | ASTM D882         |
| Dart Drop Impact              | 160 g                   | 160 g              | ASTM D1709A       |
| Elmendorf Tear Strength MD    | 510 g                   | 510 g              | ASTM D1922        |
| Elmendorf Tear Strength TD    | 150 g                   | 150 g              | ASTM D1922        |
| Puncture Force                | 13 lbf                  | 56 N               | ExxonMobil Method |
| Puncture Energy               | 8.1 in-lb               | 0.92 J             | ExxonMobil Method |

### Optical Properties

|             | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 58                      | 58                 | ASTM D2457    |
| Haze        | 9.4 %                   | 9.4 %              | 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 (2.0 mil/50.8 micron) made from LD 071.LR resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 360-380°F (182-193°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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#### 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.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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