

# ExxonMobil™ LDPE LD 071 Series

## Low Density Polyethylene Resin

### Product Description

ExxonMobil LD 071 Series case wrap film resins combine good processability with excellent strength and good film optics for bundling applications requiring proper shrink performance, toughness, 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.LR: Antiblock: 2000 ppm; Slip: No; Thermal Stabilizer: No</li> <li>▪ LD 071.LQ: Antiblock: 4000 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>
Revision Date	<ul style="list-style-type: none"> <li>▪ 06/01/2012</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>	ExxonMobil Method
Melt Index (190°C/2.16 kg)	0.70 g/10 min	0.70 g/10 min	ASTM D1238
Peak Melting Temperature	235 °F	113 °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	12 MPa	ASTM D882
Tensile Strength at Break MD	3700 psi	26 MPa	ASTM D882
Tensile Strength at Break TD	3200 psi	22 MPa	ASTM D882
Elongation at Break MD	130 %	130 %	ASTM D882
Elongation at Break TD	540 %	540 %	ASTM D882
Secant Modulus MD - 1% Secant	34000 psi	240 MPa	ASTM D882
Secant Modulus TD - 1% Secant	42000 psi	290 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	140 g	140 g	ASTM D1922
Puncture Force	12 lbf	54 N	ExxonMobil Method
Puncture Energy	7.6 in-lb	0.86 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	57	57	ASTM D2457
Haze	9.6 %	9.6 %	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 mil / 50.8 micron) made from LD071.LR on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 391°F (200°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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