

# ExxonMobil™ LD 2023.BW

## Low Density Polyethylene

### Product Description

ExxonMobil™ LD 105 resins are homopolymer packaging film resins designed for applications requiring outstanding clarity with good stiffness. These resins can be processed in either blown or cast film equipment. In blown film equipment LD 105.BW resin can be drawn down to 1.0 mil gauge.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: No</li> </ul>	<ul style="list-style-type: none"> <li>Slip: No</li> </ul>	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blend Partner</li> <li>Bread Bags</li> <li>Display Packaging Film</li> <li>Food Packaging</li> <li>Form Fill And Seal Packaging</li> </ul>	<ul style="list-style-type: none"> <li>Freezer Film</li> <li>High Clarity Film</li> <li>High Quality Lamination</li> <li>Lamination Film</li> <li>Laundry Film</li> </ul>	<ul style="list-style-type: none"> <li>Light Duty Shrink Film</li> <li>Produce Bags</li> <li>Salad Bags</li> <li>Textile Packaging</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>10/23/2024</li> </ul>		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.923 g/cm <sup>3</sup>	0.923 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	203 °F	95 °C	ASTM D1525
Peak Melting Temperature	232 °F	111 °C	ASTM D3418

### Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Break MD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Break TD	3500 psi	24 MPa	ASTM D882
Elongation at Break MD	260 %	260 %	ASTM D882
Elongation at Break TD	640 %	640 %	ASTM D882
Secant Modulus MD - 1% Secant	30000 psi	210 MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000 psi	250 MPa	ASTM D882
Dart Drop Impact	100 g	100 g	ASTM D1709A
Elmendorf Tear Strength MD	420 g	420 g	ASTM D1922
Elmendorf Tear Strength TD	130 g	130 g	ASTM D1922
Puncture Force	12 lbf	52 N	ExxonMobil Method
Puncture Energy	15 in·lb	1.7 J	ExxonMobil Method

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	74	74	ASTM D2457
Haze	4.6 %	4.6 %	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

Film (1.5 mil/38.1 micron) made from LD 2023 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°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: [Contact Us](#)

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