

ExxonMobil™ LDPE LD 105 Series

Low Density Polyethylene Resin

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 105.30 can be drawn down to 1.0 mil gauge.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> LD 105.BR: Antiblock: 1000 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes LD 105.30: Antiblock: 1000 ppm; Slip: No; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Blend Partner Bread Bags Display Packaging Film Food packaging Form Fill And Seal Packaging Freezer Film High Clarity Film High Quality Lamination Lamination Film Laundry Film Light Duty Shrink Film Produce Bags Salad Bags Textile Packaging
Revision Date	<ul style="list-style-type: none"> 04/01/2008

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm ³	0.923 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	232 °F	111 °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	1600 psi	11 MPa	ASTM D882
Tensile Strength at Break MD	3600 psi	25 MPa	ASTM D882
Tensile Strength at Break TD	3100 psi	21 MPa	ASTM D882
Elongation at Break MD	210 %	210 %	ASTM D882
Elongation at Break TD	570 %	570 %	ASTM D882
Secant Modulus MD - 1% Secant	31000 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	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM D1922
Puncture Force	8 lbf	37 N	ExxonMobil Method
Puncture Energy	6.7 in-lb	0.76 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	76	76	ASTM D2457
Haze	5.2 %	5.2 %	ASTM D1003

Processing Statement

Film (1.5 mil / 38 micron) made from LD 105.30 on a 2.5 inch blown film line with a 6 inch die and a 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 365°F (185°C).

Notes

Typical properties: these are not to be construed as specifications.

¹ 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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