

ExxonMobil™ LDPE LD 136.MN

Low Density Polyethylene Resin

Product Description

ExxonMobil LD 136.MN is a homopolymer film resin with good clarity. The resin is suitable for processing on blown film equipment.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• LD 136.MN: Antiblock: 1500 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes		
Applications	• Blend Partner • Food packaging	• Form Fill And Seal Packaging • Produce Bags	• Textile Packaging
Revision Date	• September 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.921 g/cm ³	0.921 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	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	3700 psi	25 MPa	ASTM D882
Tensile Strength at Break TD	2800 psi	19 MPa	ASTM D882
Elongation at Break MD	130 %	130 %	ASTM D882
Elongation at Break TD	540 %	540 %	ASTM D882
Secant Modulus MD - 1% Secant	29000 psi	200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	36000 psi	240 MPa	ASTM D882
Dart Drop Impact	110 g	110 g	ASTM D1709A
Elmendorf Tear Strength MD	460 g	460 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922
Puncture Force	6 lbf	28 N	ExxonMobil Method
Puncture Energy	3.5 in·lb	0.40 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	66	66	ASTM D2457
Haze	7.0 %	7.0 %	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.

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 136.MN

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Processing Statement

Film (1.5 mil / 38 micron) was made on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 362-364°F (183-184°C).

Notes

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.

For additional technical, sales and order assistance:

Worldwide and the Americas

ExxonMobil Chemical Company
13501 Katy Freeway
Houston, TX 77079-1398
USA
1-281-870-6050

Asia Pacific

ExxonMobil Chemical Asia Pacific
1 HarbourFront Place
#06-00 HarbourFront Tower One
Singapore 098633
+66-2-1638699

Europe, Middle East and Africa

ExxonMobil Chemical Europe
Hermeslaan 2
1831 Machelen, Belgium
420-239-016-274

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