

ExxonMobil™ LDPE LD 143.26

Low Density Polyethylene Resin

Product Description

ExxonMobil LD 143.26 is a homopolymer packaging film resin with excellent clarity and good stiffness. It is suitable for processing in either blown or cast film equipment. In blown film equipment LD 143.26 resin can be drawn down to 1.0 mil.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• LD 143.26: Antiblock: 1500 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes		
Applications	• Blend Partner • Cast Film • Display Packaging Film • Food packaging	• Form Fill And Seal Packaging • High Clarity Film • Lamination Film • Light Duty Shrink Film	• Mail Bag • Produce Bags • Textile Packaging
Form(s)	• Pellets		
Revision Date	• March 2010		

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)	2.1 g/10 min	2.1 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	3500 psi	24 MPa	ASTM D882
Tensile Strength at Break TD	2900 psi	20 MPa	ASTM D882
Elongation at Break MD	190 %	190 %	ASTM D882
Elongation at Break TD	550 %	550 %	ASTM D882
Secant Modulus MD - 1% Secant	30000 psi	210 MPa	ASTM D882
Secant Modulus TD - 1% Secant	36000 psi	250 MPa	ASTM D882
Dart Drop Impact	80 g	80 g	ASTM D1709A
Elmendorf Tear Strength MD	380 g	380 g	ASTM D1922
Elmendorf Tear Strength TD	160 g	160 g	ASTM D1922
Puncture Force	7 lbf	32 N	ExxonMobil Method
Puncture Energy	4.1 in·lb	0.46 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	72	72	ASTM D2457
Haze	6.2 %	6.2 %	ASTM D1003

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 143.26 Low Density Polyethylene Resin

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 (1.5 mil / 38 micron) made from LD 143.26 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 364°F (185°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.

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