

ExxonMobil™ LDPE LD 306 Series

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 306 resins are 5.5 wt% vinyl acetate copolymer, high clarity film resins. Film made from these resins exhibits superior impact strength and heat sealability.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> LD 306.CJ: Antiblock: 1000 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes LD 306.57: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: Yes LD 306.KJ: Antiblock: 3000 ppm; Slip: 1100 ppm; Thermal Stabilizer: Yes LD 306.AS: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: Yes LD 306.38: Antiblock: 1000 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes LD 306.75: Antiblock: 3000 ppm; Slip: 1100 ppm; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Co-Extrusion Films Freezer Film Poultry Bag Foams High Clarity Film Produce Bags Form Fill And Seal Packaging Lamination Film Rice Bags
Revision Date	<ul style="list-style-type: none"> 04/01/2019

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.924 g/cm ³	0.924 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Vinyl Acetate Content	5.5 wt%	5.5 wt%	ExxonMobil Method
Peak Melting Temperature	214 °F	101 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	178 °F	81 °C	ASTM D1525

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1100 psi	7.3 MPa	ASTM D882
Tensile Strength at Yield TD	1000 psi	7.1 MPa	ASTM D882
Tensile Strength at Break MD	3600 psi	25 MPa	ASTM D882
Tensile Strength at Break TD	3400 psi	24 MPa	ASTM D882
Elongation at Break MD	190 %	190 %	ASTM D882
Elongation at Break TD	590 %	590 %	ASTM D882
Secant Modulus MD - 1% Secant	16000 psi	110 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	130 MPa	ASTM D882
Dart Drop Impact	180 g	180 g	ASTM D1709A
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Puncture Force	7 lbf	33 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°)	79	79	ASTM D2457
Haze	3.7 %	3.7 %	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.



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Low Density Polyethylene Resin**Processing Statement**

Film (1.5 mil/38.1 micron) made 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).

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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