ExxonMobil™ LDPE LD 100 Series

Low Density Polyethylene Resin

Product Description

LD 100 series are LDPE grades, offering a good balance of optical and mechanical properties. Several additive packages are available according to the required surface properties.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ LD 100BR: Antiblock: 1000 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes ▪ LD 100BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 100AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes		
Applications	▪ Blend Partner ▪ Cast Film ▪ Compounding ▪ Foams ▪ Food Packaging	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Lamination Film ▪ Light Duty Shrink Film ▪ Liners	▪ Mail Bag ▪ Produce Bags ▪ Shoppers ▪ Textile Packaging ▪ Tough Medium Sized Molding
Revision Date	▪ 03/01/2013		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	230	°F	110	°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	3200	psi	22	MPa	ASTM D882
Elongation at Break MD	330	%	330	%	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	33000	psi	230	MPa	ASTM D882
Dart Drop Impact	80	g	80	g	ASTM D1709A
Elmendorf Tear Strength MD	150	g	150	g	ASTM D1922
Elmendorf Tear Strength TD	120	g	120	g	ASTM D1922

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	63		63		ASTM D2457
Haze	6.1	%	6.1	%	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 100.BW resins 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.

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

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