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Product Datasheet

ExxonMobil™ LDPE LD 100.BW

Low Density Polyethylene Resin

Product Description

LD 100.BW is a LDPE grade, offering a good balance of optical and mechanical properties.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blend Partner ▪ Cast Film ▪ Compounding ▪ Foams ▪ 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	▪ 06/17/2020		

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	228	°F	109	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	196	°F	91.0	°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	1600	psi	11	MPa	ASTM D882
Tensile Strength at Break MD	4300	psi	30	MPa	ASTM D882
Tensile Strength at Break TD	3300	psi	23	MPa	ASTM D882
Elongation at Break MD	240	%	240	%	ASTM D882
Elongation at Break TD	550	%	550	%	ASTM D882
Secant Modulus MD - 1% Secant	30000	psi	200	MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000	psi	260	MPa	ASTM D882
Dart Drop Impact	110	g	110	g	ASTM D1709A
Elmendorf Tear Strength MD	290	g	290	g	ASTM D1922
Elmendorf Tear Strength TD	100	g	100	g	ASTM D1922
Puncture Force	11	lbf	48	N	ExxonMobil Method
Puncture Energy	12	in·lb	1.3	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	69		69		ASTM D2457
Haze	5.6	%	5.6	%	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.

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).

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Low Density Polyethylene Resin

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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