

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

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

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm ³	0.923 g/cm ³	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 °C	ASTM D1525

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).