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. Several additive packages are available according to the required surface properties.

General

Availability [1]	• Latin America	• North America	• South America
Additive	• LD 100BW: 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	• January 2011		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.923	g/cm³	0.923	g/cm³	ExxonMobil Method
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	11.0	MPa	ASTM D882
Tensile Strength at Yield TD	1600	psi	11.0	MPa	ASTM D882
Tensile Strength at Break MD	3630	psi	25.0	MPa	ASTM D882
Tensile Strength at Break TD	3190	psi	22.0	MPa	ASTM D882
Elongation at Break MD	330	%	330	%	ASTM D882
Elongation at Break TD	550	%	550	%	ASTM D882
Secant Modulus MD - 1% Secant	30500	psi	210	MPa	ASTM D882
Secant Modulus TD - 1% Secant	33400	psi	230	MPa	ASTM D882
Dart Drop Impact	79	g	79	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

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

The test specimen were prepared on LD 100.BW, 30µm (1.18mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 140 - 170°C (284 - 338°F).

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

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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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