

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	<ul style="list-style-type: none"> LD 100BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes LD 100AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes LD 100BR: Antiblock: 1000 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Blend Partner Cast Film Compounding Foams Food packaging 	<ul style="list-style-type: none"> Form Fill And Seal Packaging Freezer Film Lamination Film Light Duty Shrink Film Liners 	<ul style="list-style-type: none"> Mail Bag Produce Bags Shoppers Textile Packaging Tough Medium Sized Molding
Revision Date	• March 2013		

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

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.

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 100 Series Low Density Polyethylene Resin

Processing Statement

The test specimen were prepared on LD 100BW, 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).

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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