

ExxonMobil™ LDPE LD 165BW1

Low Density Polyethylene Resin

Product Description

The LD 165BW1 is a fractional melt index LDPE, with medium optical properties.

General

Availability ¹	<ul style="list-style-type: none"> Latin America 	<ul style="list-style-type: none"> North America 	
Applications	<ul style="list-style-type: none"> Agricultural Film Blend Partner Construction Film 	<ul style="list-style-type: none"> Foams Heavy Duty Bags High Performance Collation Shrink 	<ul style="list-style-type: none"> Pallet Shrink Film Profile Extrusion
Revision Date	<ul style="list-style-type: none"> 01/01/2013 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0,922 g/cm ³	0,922 g/cm ³	ExxonMobil Method
Melt Index ²	0.33 g/10 min	0.33 g/10 min	ExxonMobil Method
Peak Melting Temperature	233 °F	111 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1800 psi	13 MPa	ASTM D882
Tensile Strength at Yield TD	1700 psi	12 MPa	ASTM D882
Tensile Strength at Break MD	4500 psi	31 MPa	ASTM D882
Tensile Strength at Break TD	3900 psi	27 MPa	ASTM D882
Elongation at Break MD	160 %	160 %	ASTM D882
Elongation at Break TD	650 %	650 %	ASTM D882
Secant Modulus MD	32000 psi	220 MPa	ASTM D882
Secant Modulus TD	43000 psi	300 MPa	ASTM D882
Dart Drop Impact	170 g	170 g	ASTM D1709
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Puncture Force	17 lbf	75 N	ExxonMobil Method
Puncture Energy	19 in·lb	2,1 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss	38	38	ASTM D2457
Haze	16 %	16 %	ASTM D1003

Additional Information

Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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 (2mil / 50.8 mueron) made from LD 165BW1 on a 2,5 inch (63,5 mm) blown film line with a 2:5:1 blown-up ratio, a melt temperature of 369°F (187°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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Notes

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

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² Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

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

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