

Product Datasheet



ExxonMobil™ LDPE LD 152BW

Low Density Polyethylene Resin

Product Description

LD152BW is an LDPE grade offering an excellent combination of optical properties and stiffness. The 2.2 MI makes it ideal for blowing thicker films.

General

Availability ¹	▪ Africa & Middle East	▪ Europe	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film	▪ Hygiene Packaging	▪ Overwrap Film
	▪ Co-Extrusion Films	▪ Label Film	▪ Paper Overwrap
	▪ Diaper Backsheet	▪ Lamination Film	▪ Produce Bags
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.933 g/cm ³	0.933 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.2 g/10 min	2.2 g/10 min	ASTM D1238
Peak Melting Temperature	241 °F	116 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield TD	2300 psi	16 MPa	ASTM D882
Tensile Strength at Break MD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Break TD	2700 psi	19 MPa	ASTM D882
Elongation at Break MD	360 %	360 %	ASTM D882
Elongation at Break TD	560 %	560 %	ASTM D882
Secant Modulus MD - 1% Secant	52000 psi	360 MPa	ASTM D882
Secant Modulus TD - 1% Secant	59000 psi	400 MPa	ASTM D882
Dart Drop Impact	50 g	50 g	ASTM D1709A
Elmendorf Tear Strength MD	140 g	140 g	ASTM D1922
Elmendorf Tear Strength TD	220 g	220 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	71	71	ASTM D2457
Haze	5.9 %	5.9 %	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 152BW, 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 180 - 190°C (356 - 374°F).

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.

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ExxonMobil**ExxonMobil™ LDPE LD 152BW**
Low Density Polyethylene ResinFor additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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