ExxonMobil™ LDPE LD 151BW

Low Density Polyethylene Resin

Product Description

LD 151 BW LDPE grades offer an excellent combination of high clarity with high stiffness. Several additive packages are available according to the required surface properties.

General

Availability [1]	▪ Asia Pacific		
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Revision Date	▪ 06/01/2006		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.934	g/cm³	0.934	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	3.0	g/10 min	3.0	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	2500	psi	17	MPa	ASTM D882
Tensile Strength at Break MD	3800	psi	26	MPa	ASTM D882
Tensile Strength at Break TD	3000	psi	21	MPa	ASTM D882
Elongation at Break MD	370	%	370	%	ASTM D882
Elongation at Break TD	610	%	610	%	ASTM D882
Secant Modulus MD - 1% Secant	55000	psi	380	MPa	ASTM D882
Secant Modulus TD - 1% Secant	64000	psi	440	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709A
Elmendorf Tear Strength MD	90	g	90	g	ASTM D1922
Elmendorf Tear Strength TD	180	g	180	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	73		73		ASTM D2457
Haze	6.0	%	6.0	%	ASTM D1003

Additional Information

Applications

- toilet tissue
- kitchen paper overwrap
- cast and melt-embossed film
- label film

Processing Statement

The film properties have been measured on a 30 µm (1.18 mil) thick film of LD 151BW (Blow-up ratio : 2.5) The value listed as Density, ASTM D1505, was tested in accordance with EMC test methods.

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

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