ExxonMobil™ LDPE LD 151 Series

Low Density Polyethylene Resin

Product Description

LD 151 series 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]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ LD 151BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 151GZ: Antiblock: 1000 ppm; Slip: 1050 ppm; Thermal Stabilizer: Yes ▪ LD 151HR: Antiblock: 400 ppm; Slip: 650 ppm; Thermal Stabilizer: Yes		
Applications	▪ Cast Film ▪ Co-Extrusion Films ▪ Embossed Film	▪ Hygiene Packaging ▪ Label Film ▪ Overwrap Film	▪ Paper Overwrap
Revision Date	▪ 11/01/2013		

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	2200	psi	15	MPa	ASTM D882
Tensile Strength at Break MD	3200	psi	22	MPa	ASTM D882
Tensile Strength at Break TD	2600	psi	18	MPa	ASTM D882
Elongation at Break MD	430	%	430	%	ASTM D882
Elongation at Break TD	560	%	560	%	ASTM D882
Secant Modulus MD - 1% Secant	54000	psi	370	MPa	ASTM D882
Secant Modulus TD - 1% Secant	54000	psi	370	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709A
Elmendorf Tear Strength MD	100	g	100	g	ASTM D1922
Elmendorf Tear Strength TD	170	g	170	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

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 151BW, 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

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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