

ExxonMobil™ LDPE LD 150 Series

Low Density Polyethylene Resin

Product Description

LD 150 series are LDPE grades, offering good blend mechanical properties and stiffness. Several additive packages are available according to the required surface properties.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• LD 150BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes • LD 150AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes		
Applications	• Agricultural Film • Blend Partner • Co-Extrusion Films	• Collation Shrink • Form Fill And Seal Packaging • Freezer Film	• Lamination Film • Medium Duty Shrink Film • Shoppers
Form(s)	• Pellets		
Revision Date	• March 2010		

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)	0.75 g/10 min	0.75 g/10 min	ASTM D1238
Peak Melting Temperature	228 °F	109 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3480 psi	24.0 MPa	ASTM D882
Tensile Strength at Break TD	3340 psi	23.0 MPa	ASTM D882
Elongation at Break MD	370 %	370 %	ASTM D882
Elongation at Break TD	570 %	570 %	ASTM D882
Secant Modulus MD - 1% Secant	31900 psi	220 MPa	ASTM D882
Secant Modulus TD - 1% Secant	37700 psi	260 MPa	ASTM D882
Dart Drop Impact	180 g	180 g	ASTM D1709A
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	200 g	200 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	64	64	ASTM D2457
Haze	7.0 %	7.0 %	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 150BW, 50µm (1.97mil) 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 145 - 180°C (293 - 356°F).

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 150 Series Low Density Polyethylene Resin

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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