

ExxonMobil™ LDPE LD 160AT

Low Density Polyethylene Resin

Product Description

LD 160 series are LDPE grades, which offer good draw down and optical properties.

General

Availability ¹	• Africa & Middle East	• Asia Pacific	
Additive	• Antiblock: 1200 ppm	• Slip: 900 ppm	• Thermal Stabilizer: Yes
Applications	• Cast Film	• Laundry Film	• Profile Extrusion
	• High Clarity Film	• Produce Bags	• Zipper Bag
Revision Date	• 01/01/2017		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Peak Melting Temperature	226 °F	108 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.6 MPa	ASTM D882
Tensile Strength at Break MD	3300 psi	23 MPa	ASTM D882
Tensile Strength at Break TD	2200 psi	15 MPa	ASTM D882
Elongation at Break MD	180 %	180 %	ASTM D882
Elongation at Break TD	490 %	490 %	ASTM D882
Secant Modulus MD - 1% Secant	25000 psi	170 MPa	ASTM D882
Secant Modulus TD - 1% Secant	30000 psi	210 MPa	ASTM D882
Dart Drop Impact	70 g	70 g	ASTM D1709A
Elmendorf Tear Strength MD	290 g	290 g	ASTM D1922
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	71	71	ASTM D2457
Haze	5.2 %	5.2 %	ASTM D1003

Additional Information

LD 160 AT can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migrations or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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

The test specimen were prepared on LD 160AT, 30µm (1.18 mil) 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) 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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