

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	- Latin America - North America	South America
Additive	Antiblock: 1200 ppm	Slip: 900 ppm	Thermal Stabilizer: Yes
Applications	- Cast Film - High Clarity Film	- Laundry Film - Produce Bags	- Profile Extrusion - Zipper Bag
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)	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	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	2800 psi	19 MPa	ASTM D882
Tensile Strength at Break TD	2200 psi	15 MPa	ASTM D882
Elongation at Break MD	220 %	220 %	ASTM D882
Elongation at Break TD	450 %	450 %	ASTM D882
Secant Modulus MD - 1% Secant	26000 psi	180 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	170 g	170 g	ASTM D1922
Elmendorf Tear Strength TD	130 g	130 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	70	70	ASTM D2457
Haze	5.4 %	5.4 %	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

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.

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 160AT

Low Density Polyethylene Resin

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 140 - 170°C (284 - 338°F).

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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