

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

Additive	▪ Antiblock: 1200 ppm	▪ Slip: 900 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film ▪ High Clarity Film	▪ Laundry Film ▪ Produce Bags	▪ Profile Extrusion ▪ Zipper Bag

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	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	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	290 g	290 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	5	5	ASTM D2457
Haze	5.2 %	5.2 %	ASTM D1003

