ExxonMobil™ LDPE LD 159AC

Low Density Polyethylene Resin

Product Description

LD 159AC is an LDPE grade, which offers good draw down combined with good mechanical strength.

General

Availability [1]	▪ Africa & Middle East	▪ Europe	
Additive	▪ Antiblock: 450 ppm	▪ Slip: 500 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Blend Partner ▪ Co-Extrusion Films ▪ Collation Shrink ▪ Food Packaging	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Lamination Film ▪ Medium Duty Shrink Film	▪ Produce Bags ▪ Shoppers
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.924	g/cm³	0.924	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.2	g/10 min	1.2	g/10 min	ASTM D1238
Peak Melting Temperature	230	°F	110	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	3500	psi	24	MPa	ASTM D882
Tensile Strength at Break TD	2900	psi	20	MPa	ASTM D882
Elongation at Break MD	200	%	200	%	ASTM D882
Elongation at Break TD	510	%	510	%	ASTM D882
Secant Modulus MD - 1% Secant	34000	psi	240	MPa	ASTM D882
Secant Modulus TD - 1% Secant	40000	psi	280	MPa	ASTM D882
Dart Drop Impact	140	g	140	g	ASTM D1709A
Elmendorf Tear Strength MD	450	g	450	g	ASTM D1922
Elmendorf Tear Strength TD	160	g	160	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	62		62		ASTM D2457
Haze	8.5	%	8.5	%	ASTM D1003

Processing Statement

The test specimen were prepared on LD 159AC, 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 180 - 190°C (356 - 374°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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