

ExxonMobil™ LDPE LD 317.09

Low Density Polyethylene Resin

Product Description

ExxonMobil LD 317.09 resin is a fractional melt index, 6 wt% vinyl acetate copolymer film resin. Film made from LD 317.09 offers excellent impact strength, tensile properties, and heat sealability.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• LD 317.09: Antiblock: No; Slip: No; Thermal Stabilizer: Yes		
Applications	• Agricultural Film	• Form Fill And Seal Packaging	• Poultry Bag
	• Batch Inclusion Bags	• Freezer Film	• Produce Bags
	• Co-Extrusion Films	• Heavy Duty Bags	• Profile Extrusion
	• Construction Film	• Ice Bags	
Revision Date	• January 2011		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.926 g/cm ³	0.926 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238
Vinyl Acetate Content	6.0 wt%	6.0 wt%	ExxonMobil Method
Peak Melting Temperature	216 °F	102 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	4700 psi	32 MPa	ASTM D882
Tensile Strength at Break TD	4600 psi	31 MPa	ASTM D882
Elongation at Break MD	300 %	300 %	ASTM D882
Elongation at Break TD	620 %	620 %	ASTM D882
Secant Modulus MD	18000 psi	130 MPa	ASTM D882
Secant Modulus TD	21000 psi	150 MPa	ASTM D882
Dart Drop Impact	490 g	490 g	ASTM D1709A
Elmendorf Tear Strength MD	130 g	130 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	66	66	ASTM D2457
Haze	6.1 %	6.1 %	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.

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

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ExxonMobil Chemical ExxonMobil™ LDPE LD 317.09 Low Density Polyethylene Resin

Processing Statement

Film (2 mil / 50.8 micron) made on a 2.5 inch blown film line having a 6 inch die with a 30 mil gap at a 2.5:1 blowupratio and a melt temperature of ~383 °F (195 °C).

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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