

ExxonMobil™ LDPE LD 319 Series

Ethylene Vinyl Acetate Copolymer Resin

Product Description

ExxonMobil™ LD 319 Series are 8.7 wt% vinyl acetate copolymer film resins. Films made from LD 319 resins exhibit superior impact strength and heat sealability.

General

Additive	- LD 319.PM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes - LD 319.92: Antiblock: No; Slip: No; Thermal Stabilizer: Yes	
Applications	Meat Packaging	Primal Meat Bags
Form(s)	Pellets	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.930 g/cm ³	0.930 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Vinyl Acetate Content	8.7 wt%	8.7 wt%	ExxonMobil Method
Peak Melting Temperature	208 °F	98 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	171 °F	77 °C	ASTM D1525

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	920 psi	6.4 MPa	ASTM D882
Tensile Strength at Yield TD	850 psi	5.9 MPa	ASTM D882
Tensile Strength at Break MD	4500 psi	31 MPa	ASTM D882
Tensile Strength at Break TD	4000 psi	28 MPa	ASTM D882
Elongation at Break MD	330 %	330 %	ASTM D882
Elongation at Break TD	660 %	660 %	ASTM D882
Secant Modulus MD - 1% Secant	14000 psi	96 MPa	ASTM D882
Secant Modulus TD - 1% Secant	16000 psi	110 MPa	ASTM D882
Dart Drop Impact	360 g	360 g	ASTM D1709A
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Puncture Force	14 lbf	62 N	ExxonMobil Method
Puncture Energy	27 in-lb	3.0 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	85	85	ASTM D2457
Haze	1.9 %	1.9 %	ASTM D1003

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

Film (1.5 mil/38.1 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).