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

Availability [1]	▪ Latin America	▪ North America
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	
Revision Date	▪ 01/10/2019	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.930	g/cm³	0.930	g/cm³	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).

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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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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