

# Osterlene® LD-1-919

Low Density Polyethylene

Osterman & Company

## Message:

LD-1-919 is a series of resins designed for a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. LD-1-919 exhibits good uniformity, ease of processing and good tensile strength. LD-1-919 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply.

General Information			
Features	Impact resistance, high		
	Workability, good		
	Good stripping		
	Compliance of Food Exposure		
	Flame retardant		
Uses	Films		
	Non-specific food applications		
	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	14.5	MPa	ASTM D638
Tensile Elongation (Break)	660	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD	200	MPa	ASTM D882
Tensile Strength - MD (Yield)	24.1	MPa	ASTM D882
Tensile Elongation - MD (Yield)	200	%	ASTM D882
Dart Drop Impact <sup>1</sup>	120	g	ASTM D1709
Elmendorf Tear Strength - MD	300	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
Additional Information			
Product LD-1-919: Slip - None, Antiblock - NoneProduct LD-1-919-SMAL: Slip - Medium, Antiblock - LowProduct LD-1-919-AM: Slip - None, Antiblock - MediumThe value shown as Secant Modulus, ASTM D882, was tested in accordance with ASTM E111.			
NOTE			
1.	F50		

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