

Osterlene® LD1019A

Low Density Polyethylene

Osterman & Company

Message:

Osterlene LD1019 is a series of resins designed for a wide variety of industrial film applications where high impact strength and excellent drawdown are needed.

LD1019 exhibits good uniformity, ease of processing and good tensile strength.

Osterlene LD1019 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. Contact your Osterman sales representative for more information.

Specific recommendations can be made only when the end use applications, properties and processing equipment are known. Consult your Osterman sales representative.

General Information			
Additive	Anti-caking agent (4000 ppm)		
Features	Anti-caking property		
	Impact resistance, high		
	Workability, good		
	Good stripping		
Uses	Films		
	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	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 (Break)	14.5	MPa	ASTM D638
Tensile Elongation (Break)	660	%	ASTM D638
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM E111
MD	200	MPa	ASTM E111
TD	234	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Fracture	24.1	MPa	ASTM D882
TD: Fracture	16.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	200	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact ¹	120	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD	300	g	ASTM D1922
TD	130	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
NOTE			
1.	F50		

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