

Osterlene® LD2019SA

Low Density Polyethylene

Osterman & Company

Message:

LD2019 is a homopolymer resin especially designed for industrial and consumer packaging, and liner and bag applications.

LD2019 has an excellent balance of processability, toughness and drawdown.

Osterlene LD2019 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 for processing LD2019 can only be made when the processing conditions, equipment and end use are known. Consult your Osterman sales

General Information			
Additive	Anti-caking agent (4500 ppm)		
	Sliding agent (550 ppm)		
Features	smoothness		
	Homopolymer		
	Anti-caking property		
	Workability, good		
	Good stripping		
	Good toughness		
Uses	Packaging		
	Lining		
	Bags		
	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)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.4	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM E111
1% secant, MD	183	MPa	ASTM E111
1% secant, TD	221	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Fracture	22.1	MPa	ASTM D882

TD: Fracture	15.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	200	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact ¹	110	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	350	g	ASTM D1922
TD	70	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
NOTE			
1.	F50		

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