

# Osterlene® LLB2019

Linear Low Density Polyethylene

Osterman & Company

Message:

LLB2019 has exceptional toughness and strength and ease of extrusion.

Applications for LLB2019 include trash bags, liners, general packaging, industrial liners, heavy duty bags, stretch wrap, blend resin and industrial packaging.

Osterlene LLB2019 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.

General Information			
Additive	Processing aid		
Features	High strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Lining		
	Bags		
	Industrial application		
	Stretch winding		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	170	MPa	ASTM D882
1% secant, TD	190	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.3	MPa	ASTM D882
TD: Yield	10.3	MPa	ASTM D882
MD: Fracture	31.7	MPa	ASTM D882
TD: Fracture	24.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	660	%	ASTM D882

TD: Fracture	700	%	ASTM D882
Dart Drop Impact <sup>1</sup>	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	110	g	ASTM D1922
TD	330	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	43		ASTM D2457
Haze	14	%	ASTM D1003
NOTE			
1.	F50		

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#### Recommended distributors for this material

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