

Osterlene® LLM1018A

Linear Low Density Polyethylene

Osterman & Company

Message:

LLM1018 is best suited for applications requiring excellent clarity, gloss, toughness and heat seal. Typical blown film applications include; seal layer in coextrusions, heavy duty packaging and clarity packaging.

Osterlene LLM1018 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 Anti-caking agent (5000 ppm)		
Features	Highlight Anti-caking property Definition, high Good toughness		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Energy	6.28	J	ASTM D3763
Film Puncture Force	77.0	N	ASTM D3763
secant modulus			ASTM D882
1% secant, MD	179	MPa	ASTM D882
1% secant, TD	208	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	12.8	MPa	ASTM D882
TD: Yield	10.0	MPa	ASTM D882
MD: Fracture	74.5	MPa	ASTM D882
TD: Fracture	56.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	500	%	ASTM D882
TD: Fracture	600	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922

MD	220	g	ASTM D1922
TD	430	g	ASTM D1922
Additional Information	Nominal Value	Unit	Test Method
Sealing Initial Temperature	102	°C	ASTM F88

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