

# Osterlene® LLH2018

Linear Low Density Polyethylene

Osterman & Company

Message:

LLH2018 has exceptional toughness and low gel level.

Applications for LLH2018 include cast stretch wrap.

Osterlene LLH2018 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			
Features	Low speed solidification crystal point		
	Good toughness		
Uses	Stretch winding		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	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
Coefficient of Friction	> 1.0		ASTM D1894
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	150	MPa	ASTM D882
1% secant, TD	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.3	MPa	ASTM D882
TD: Yield	10.3	MPa	ASTM D882
MD: Fracture	39.3	MPa	ASTM D882
TD: Fracture	29.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	500	%	ASTM D882
TD: Fracture	780	%	ASTM D882
Dart Drop Impact <sup>1</sup>	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	260	g	ASTM D1922
TD	420	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (45°)	90		ASTM D2457
Haze	2.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Dart Impact	> 270.3	kN/m	ASTM D1709
Sealing Initial Temperature	102	°C	ASTM F88
NOTE			
1.	F50		

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