

Osterlene® LL01020SA

Linear Low Density Polyethylene

Osterman & Company

Message:

LLO1020 is designed for production of a wide variety of films. Films made from this resin exhibit a combination of good toughness and tear resistance. Osterlene LLO1020 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	Anti-caking agent (3000 ppm)		
	Sliding agent (1200 ppm)		
Features	smoothness		
	Anti-caking property		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance	18.0	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD	181	MPa	ASTM D882
2% secant, TD	235	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	12.5	MPa	ASTM D882
TD: Yield	13.5	MPa	ASTM D882
MD: Fracture	52.0	MPa	ASTM D882
TD: Fracture	44.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	730	%	ASTM D882
TD: Fracture	810	%	ASTM D882

Dart Drop Impact	300	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	810	g	ASTM D1922
TD	1100	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	108	°C	ASTM D1525
Melting Temperature (DSC)	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	30		ASTM D2457
Haze	11	%	ASTM D1003

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