

Osterlene® LD-.7-919

Low Density Polyethylene

Osterman & Company

Message:

LD-.7-919 is a series of resins formulated with special antiblock additive and designed for a wide variety of industrial film applications where high impact strength and excellent drawdown are needed.

LD-.7-919 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.

General Information			
Additive	Anti-caking agent		
Features	Anti-caking property		
	Impact resistance, high		
	Good stripping		
	Compliance of Food Exposure		
Uses	Films		
	Non-specific food applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	46		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.7	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	179	MPa	ASTM D882
Tensile Strength - MD (Yield)	23.4	MPa	ASTM D882
Tensile Elongation - MD (Yield)	160	%	ASTM D882
Dart Drop Impact ¹	130	g	ASTM D1709
Elmendorf Tear Strength - MD	300	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746

Vicat Softening Temperature	90.0	°C	ASTM D1525
Additional Information			
The value shown as Secant Modulus, ASTM D882, was tested in accordance with ASTM E111.Product LD-.7-919-AM: Slip - None, Antiblock - MediumProduct LD-.7-919-SH: Slip - High, Antiblock - None			
Extrusion	Nominal Value	Unit	
Melt Temperature	154 - 177	°C	
Extrusion instructions			
Generally recommended extrusion conditions include a melt temperature range of 310 - 350°F and a blow-up ratio rate of 1.8-2.5:1.Drawdown to gauges below 1.0 mils (<25 microns) is possible at commercial rates when proper techniques are used. Specific recommendations for processing can only be made when the processing conditions, equipment and end use are known.			
NOTE			
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