

Osterlene® LD-1.8-921

Low Density Polyethylene

Osterman & Company

Message:

LD-1.8-921 is a series of homopolymer resins that combine premium clarity with strength and stiffness.

LD-1.8-921 exhibits good impact strength on both flat and creased film. It is recommended for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle. The optical values of LD-1.8-921 actually improve with decreases in film gauge and are maintained at wide die gap settings. This leads to important cost savings. With wider die gaps back pressures are reduced, as are extrusion costs.

LD-1.8-921 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			
Features	Rigid, good		
	Impact resistance, good		
	Good strength		
	Definition, high		
	Compliance of Food Exposure		
Uses	Thin wall packaging		
	Textile applications		
	Non-specific food applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	179	MPa	ASTM D882
Tensile Strength			ASTM D882
TD: Yield	11.0	MPa	ASTM D882
MD: Fracture	27.6	MPa	ASTM D882
Tensile Elongation - MD (Yield)	300	%	ASTM D882
Dart Drop Impact ¹ (10°C)	90	g	ASTM D1709
Elmendorf Tear Strength - MD	360	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	70		ASTM D2457
Haze	5.0	%	ASTM D1003
Additional Information			

Product LD-1.8-921: Slip - None, Antiblock - NoneProduct LD-1.8-921-AH: Slip - None, Antiblock - HighProduct LD-1.8-921-SMAM: Slip - Medium, Antiblock - Medium

NOTE

1. F50

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