

Osterlene® LDC1821

Low Density Polyethylene

Osterman & Company

Message:

LDC1821 is a series of homopolymer resins that combine premium clarity with strength and stiffness. It 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. Osterlene LDC1821 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.

Specific recommendations for processing can only be made when the processing conditions, equipment and end use are known. Consult your Osterman sales Representative.

General Information			
Features	Rigid, good		
	Homopolymer		
	Workability, good		
	Good strength		
	Definition, high		
Uses	Packaging		
	Films		
	Bags		
Agency Ratings	FDA 21 CFR 177.1520		
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			ASTM D882
1% secant, MD	179	MPa	ASTM D882
1% secant, TD	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.3	MPa	ASTM D882
TD: Yield	11.0	MPa	ASTM D882
MD: Fracture	27.6	MPa	ASTM D882
TD: Fracture	23.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	300	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact ¹	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922

MD	360	g	ASTM D1922
TD	200	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
NOTE			
1.	F50		

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