Osterlene® LD07520A

Low Density Polyethylene

Osterman & Company

Message:

LD07520 is designed for a wide variety of industrial film applications where high impac t strength and excellent drawdown are needed. LD07520 exhibits uniformity, ease of processing and good tensile strength.
Generally recommended extrusion conditions include a melt temperature range of 310°-350°F (155°-177°C) and a blow-up ratio range 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 limitations may apply, contact your Osterman sales representative for more information.
Osterlene LD07520 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		
Features	Anti-caking property Workability, good Good strength		
Uses	Industrial application		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.920	g/cm³	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			ASTM D638
Yield	10.7	MPa	ASTM D638
Fracture	11.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	100	%	ASTM D638
Fracture	700	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM E111
1% secant, MD	179	MPa	ASTM E111
1% secant, TD	221	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Fracture	23.4	MPa	ASTM D882
TD: Fracture	16.5	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Fracture	160	%	ASTM D882
TD: Fracture	480	%	ASTM D882
Dart Drop Impact [1]	130	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	300	g	ASTM D1922
TD	180	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature [2]	-75.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
NOTE			
1.	F50		
2.	F50		

Recommended distributors for this material

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