Osterlene® LD02520SA

Low Density Polyethylene

Osterman & Company

Message:

LD02520 is designed for heavy duty film applications. Superior puncture resistance combined with excellent impact properties make this resin an ideal choice for bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials.
LD02520 has been designed for excellent processability, bubble stability and good heat sealing over a wide range of extrusion conditions. Optimum properties are found at melt temperatures of 330°-430°F (165°-221°C) and blow-up ratios between 1.8:1 and 2.5:1. Drawdown to 1.5 mil (38.1 microns) is possible at commercial rates when proper extrusion techniques are used. Specific recommendations can be made only when the end use applications, required properties and processing equipment are known. For exact recommendations, contact your Osterman Sales Representative. ?
Osterlene LD02520 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	Low smoothness High caking resistance		
Features	Low smoothness High caking resistance Workability, good		
Uses	Packaging Films Architectural application field Agricultural application Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.918	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1] (100% Igepal)	0.00	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	14.5	MPa	ASTM D638
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	234	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**

secant modulus			ASTM E111
1% secant, MD	165	MPa	ASTM E111
1% secant, TD	186	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Fracture	20.7	MPa	ASTM D882
TD: Fracture	19.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	300	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact [2]	220	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	220	g	ASTM D1922
TD	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature [3]	< -76.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
NOTE			
1.	in 7 Days		
2.	F50		
3.	F50		

Recommended distributors for this material

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