# Osterlene® LD02520A

## Low Density Polyethylene Osterman & Company

representative for more information

#### 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

Additive High caking resistance Features 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 D1505  Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.25 g/10 min ASTM D1538  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 165 MPa ASTM D191	General Information				
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1% secant, TD 186 MPa ASTM E111	1% secant, TD	186	MPa	ASTM E111	

Tensile Strength			ASTM D882
MD: Fracture	20.7	МРа	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 <sup>2</sup>	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 <sup>3</sup>	< -76.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
NOTE			
1.	in 7 Days		
2.	F50		
3.	F50		

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### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

