

Osterlene® LD-2-919

High Density Polyethylene

Osterman & Company

Technical Data

Product Description

LD-2-919 is a series of homopolymer resins especially designed for industrial and consumer packaging, and liner and bag applications.

LD-2-919 has an excellent balance of processability, toughness and drawdown.

LD-2-919 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

Material Status	• Commercial: Active	
Literature ¹	• Technical Datasheet (English)	
Availability	• North America	
Features	• Food Contact Acceptable • Good Drawdown	• Good Processability • Good Toughness
Uses	• Bags • Food Packaging	• Liners • Non-specific Food Applications • Packaging
Agency Ratings	• FDA 21 CFR 177.1520	
Forms	• Pellets	

Physical	Nominal Value Unit	Test Method
Density	0.919 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength	12.4 MPa	ASTM D638
Tensile Elongation (Break)	650 %	ASTM D638

Films	Nominal Value Unit	Test Method
Secant Modulus - 1% Secant, MD	183 MPa	ASTM D882
Tensile Strength - MD (Yield)	22.1 MPa	ASTM D882
Tensile Elongation - MD (Yield)	200 %	ASTM D882
Dart Drop Impact ³	110 g	ASTM D1709
Elmendorf Tear Strength - MD	350 g	ASTM D1922

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	85.0 °C	ASTM D1525

Additional Information

The value shown as Secant Modulus, ASTM D882, was tested in accordance with ASTM E111.

Product LD-2-919: Slip(ppm) - 0, Antiblock(ppm) - 0

Product LD-2-919-SA: Slip(ppm) - 500L, Antiblock(ppm) - 4500H

Product LD-2-919-SLAUL: Slip(ppm) - 500L, Antiblock(ppm) - 10000UH

Product LD-2-919-AH: Slip(ppm) - 0, Antiblock(ppm) - 4000H

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ F50