Osterlene® LD-.25-918

Low Density Polyethylene

Osterman & Company

Message:

LD-.25-918 is a series of resins designed for heavy duty film applications. Superior puncture resistance combined with excellent impact properties make it an ideal choice for bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials.
LD-.25-918 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.
LD-.25-918 has been designed for excellent processability, bubble stability and good heat sealing over a wide range of extrusion conditions.

General Information	
Features	Perforation resistance Impact resistance, high Workability, good Good heat sealability Compliance of Food Exposure
Uses	Packaging Non-specific food applications Agricultural application
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Film extrusion 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 (100% Igepal, F0)	168	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)	145	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	234	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus - 1% Secant, MD	165	MPa	ASTM D882
Tensile Strength - MD (Yield)	20.7	MPa	ASTM D882
Tensile Elongation - MD (Break)	300	%	ASTM D882

Dart Drop Impact [1]	220	g	ASTM D1709
Elmendorf Tear Strength - MD	220	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525

Additional Information
The value shown as Secant Modulus, ASTM D882, was tested in accordance with ASTM E111.Tensile Elogation @ Break, ASTM D638: >600%Brittle Temperature, F50, ASTM D746: <-76°CProduct LD-.25-918: Slip - None, Antiblock - NoneProduct LD-.25-918-AH: Slip - None, Antiblock - HighProduct LD-.25-918-SLAH: Slip - Low, Antiblock - High

Extrusion	Nominal Value	Unit
Melt Temperature	166 - 221	°C

Extrusion instructions
Optimum properties are found at melt temperatures of 330 -430°F and blow-up ratios between 1.8:1-2.5:1.Specific recommendations can be made only when the end use applications, properties and processing equipment are known.

NOTE	
1.	F50

Recommended distributors for this material

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