

Westlake Mxsten CV77519 Polyethylene Plastomer

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Mxsten CV Plastomer CV77519 is a polyethylene plastomer designed for blown film extrusion that contains no slip and no antiblock. It does contain high processing aid. Films produced with this resin exhibit exceptionally low seal initiation temperature with a broad hot tack window combined with good stiffness. Other features of this resin include extreme strength in cold and refrigerated temperature environments, high resistance to tears, and high MVTR. Its applications include: agricultural tubing, blown film, food packaging, and trash bags. This resin grade complies with 21 CFR 177.1520. Extrusion conditions used to produce 1 mil (0.025 mm) film include a 6̄½ die, 2.5̄½ 24:1 L:D barrier screw, 2.4:1 BUR, 100-mil die gap, 15̄½ frostline height, 450̄½ F melt temperature, and 7.5 lb/hr/inch die output. Density results are on Base Resin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Mxsten-CV77519-Polyethylene-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.906 g/cc	0.0327 lb/in ³	ASTM-D4883
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	62.0 MPa	8990 psi	ASTM-D882
Film Tensile Strength at Yield, TD	8.00 MPa	1160 psi	ASTM-D882
Film Elongation at Break, MD	600 %	600 %	ASTM-D822
Film Elongation at Break, TD	1000 %	1000 %	ASTM-D882
Elmendorf Tear Strength MD	600 g	600 g	ASTM-D1992
Elmendorf Tear Strength TD	650 g	650 g	ASTM-D1992
Dart Drop Test	>= 2000 g	>= 4.41 lb	ASTM-D1709A
Film Tensile Strength at Break, MD	62.0 MPa	8990 psi	ASTM-D882
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ASTM-D882
1% Secant Modulus, MD	124 MPa	18000 psi	ASTM-D822
1% Secant Modulus, TD	145 MPa	21000 psi	ASTM-D822
Heat Seal Strength Initiation	82.0 °C	180 °F	Temperature at which 200 g/in. seal

Temperature Mechanical Properties	Metric	English	strength is achieved.; Westlake Test Comments
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Optical Properties	Metric	English	Comments
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Haze	8.0 %	8.0 %	ASTM-D1003
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Gloss	60 %	60 %	Angle 45°; ASTM-D2457
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Descriptive Properties	Value	Comments
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Process	Blown Film	
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Region	US & Canada	Bamberger Polymers Distribution
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