

MXSTEN® CV77519

Ethylene-based Plastomer

Westlake Chemical Corporation

Message:

CV77519 is a polyethylene plastomer designed for blown film extrusion that contains no slip or antiblock, and high processing aid additives. 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.

Application/Uses:

Agricultural tubing

Blown film

Food packaging

General Information			
Additive	Processing aid		
Features	High Moisture Vapor Transmission		
	Low temperature heat sealability		
	Rigid, good		
	Good tear strength		
	Low temperature resistance		
Uses	Compliance of Food Exposure		
	Films		
	Pipe fittings		
	Agricultural application		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.906	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 25 µm, blown film	124	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	145	MPa	ASTM D882
Tensile Strength ²			ASTM D882
TD: Yield, 25 µm, blown film	8.00	MPa	ASTM D882
MD: Broken, 25 µm, blown film	62.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	45.0	MPa	ASTM D882

Tensile Elongation ³			ASTM D882
MD: Broken, 25 µm, blown film	600	%	ASTM D882
TD: Broken, 25 µm, blown film	1000	%	ASTM D882
Dart Drop Impact ⁴ (25 µm, Blown Film)	> 2000	g	ASTM D1709
Elmendorf Tear Strength ⁵			ASTM D1922
MD: 25 µm, blown film	600	g	ASTM D1922
TD: 25 µm, blown film	650	g	ASTM D1922
Seal Initiation Temperature ⁶ (25 µm, Blown Film)	82.0	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	60		ASTM D2457
Haze (25.4 µm, Blown Film)	8.0	%	ASTM D1003

Additional Information

Extrusion conditions used to produce 1 mil (0.025 mm) film include a 6" die, 2.5":24:1 L:D barrier screw, 2.4:1 BUR, 100-mil die gap, 15" frostline height, 450° F melt temperature, and 7.5 lb/hr/inch die output. Density results are on Base Resin.

NOTE

1. Test run at 23°C (73°F) and 50% relative humidity
2. Test run at 23°C (73°F) and 50% relative humidity
3. Test run at 23°C (73°F) and 50% relative humidity
4. Test run at 23°C (73°F) and 50% relative humidity
5. Test run at 23°C (73°F) and 50% relative humidity
6. Seal initiation temperature is the temperature at which 200 g/inch seal strength is achieved.

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