MXSTEN® CV77523

Ethylene-based Plastomer

Westlake Chemical Corporation

Message:

MXSTEN® CV77523 is a polyethylene plastomer designed for blown film extrusion that contains high slip, very high antiblock and polymer processing aid additives. Films produced with this resin exhibit very good strength properties, and low seal initiation temperatures.
Application/Uses:
Agricultural tubing
Blown film
Food packaging

General Information			
Additive	High smoothness High caking resistance Processing aid		
Features	Low temperature heat sealability High smoothness High caking resistance Good strength Compliance of Food Exposure		
Uses	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/cm³	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	7.58	MPa	ASTM D882
MD: Broken, 25 µm, blown film	55.2	MPa	ASTM D882

TD: Broken, 25 µm, blown film	51.7	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)	1200	g	ASTM D1709
Elmendorf Tear Strength [5]			ASTM D1922
MD: 25 µm, blown film	450	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)	35		ASTM D2457
Haze (25.4 µm, Blown Film)	30	%	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.

Recommended distributors for this material

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