

MXSTEN® CV77516

Ethylene-based Plastomer

Westlake Chemical Corporation

Message:

Mxsten CV Plastomer CV77516 resin is a polyethylene plastomer designed for blown film extrusion that contains no slip and no antiblock additives. Films produced with this resin exhibit a very low seal initiation temperature with a broad hot tack window. Other features of this resin include higher stiffness and high melting point.

Application/Uses

?- Blown film

?- Food Packaging

General Information			
Features	Low temperature heat sealability		
	Rigidity, high		
	Compliance of Food Exposure		
Uses	Films		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength ¹			ASTM D882
MD: Broken, 25 µm, blown film	56.5	MPa	ASTM D882
TD: Broken, 25 µm, blown film	44.1	MPa	ASTM D882
Tensile Elongation ²			ASTM D882
MD: Broken, 25 µm, blown film	750	%	ASTM D882
TD: Broken, 25 µm, blown film	1100	%	ASTM D882
Dart Drop Impact ³ (25 µm, Blown Film)	1700	g	ASTM D1709A
Seal Initiation Temperature ⁴ (25 µm, Blown Film)	88.0	°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)	7.0	%	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, 425° 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.	Seal initiation temperature is the temperature at which 200 g/inch seal strength is achieved.

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