



Application/Uses

- Agricultural tubing
- Blown film
- Food packaging

Product Description

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.

Typical Physical Properties

<u>Property^a</u>		<u>Test^b Method</u>	<u>Typical Value, Units^c</u>
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.5 g/10 min
Density		D 4883	906 kg/m ³ (0.906 g/cm ³)
Thickness of Film Tested			1.0 mils
Haze		D 1003	30%
Gloss @ 45°		D 2457	35
Dart Impact		D 1709	1200 g
Seal Initiation Temperature ^d		Westlake	82°C (180°F)
Elmendorf Tear Resistance	M.D.	D 1922	450 gf
	T.D.	D 1922	650 gf
Tensile Strength @ Break	M.D.	D 882	8000 psi
	T.D.	D 882	7500 psi
Tensile Strength @ ^e Yield	T.D.	D 882	1100 psi
Elongation @ Break	M.D.	D 882	600%
	T.D.	D 882	1000%
Tensile Modulus, 1% Secant	M.D.	D 882	18,000 psi
	T.D.	D 882	21,000 psi

^a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^b Unless noted otherwise, the test method is ASTM.

^c Units are in SI or US customary units.

^d Seal initiation temperature is the temperature at which 200 g/inch seal strength is achieved.

^e M.D. – DNY (Did Not Yield)

Applications

MXSTEN[®] CV77523 is a polyethylene plastomer designed for blown film extrusion that contains high slip, high 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.

Conditions

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.

FDA

This resin grade complies with 21 CFR 177.1520. For further information, please contact Product Regulatory Compliance.

Comments

Properties reported here are based on limited testing. Westlake makes no representation that the material in any particular shipment will conform exactly to the values given.

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