

Technical Data Sheet

Applications

- Blown film
- Core layer in multilayer films
- Irrigation tubing

Product Description

MXSTEN® CV77541 is a linear low density polyethylene plastomer designed for blown film and extrusion applications. It does not contain any slip or antiblock additives. It is recommended for multilayer films as a core layer to increase dart impact, puncture resistance, and tear properties of the overall film structure. It is also recommended for irrigation tubing to improve flexibility while maintaining a good balance of physical properties.

Typical Physical Properties

Property ^a		Test Method ^b	Typical Value, Units ^c
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)
Haze		D 1003	14 %
Gloss @ 45°		D 2457	62
Dart Impact		D 1709	1,750 g
Elmendorf Tear	M.D.	D 1922	560 gf
	T.D.	D 1922	630 gf
Tensile Strength at Break	M.D.	D 882	64.1 MPa (9,300 psi)
	T.D.	D 882	49.0 MPa (7,100 psi)
Elongation at Break	M.D.	D 882	610%
	T.D.	D 882	970%
Tensile Modulus, 1% Secant	M.D.	D 882	104.8 MPa (15,200 psi)
	T.D.	D 882	102.7 MPa (14,900 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.

Notes

Test specimens for blown film: nominal thickness 1.0 mil; blow up ratio 2.5:1, die gap 100 mils.

Processing

Melt temperatures of 420°F – 450°F are recommended for MXSTEN® CV77541 with blow-up ratios of 1.5:1 or higher.

Regulatory Compliance

This product has some 21 CFR clearances. Please contact your Westlake Sales Representative for food contact statements.

Westlake makes no representation that the material in any particular shipment will conform exactly to the values given. Westlake and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

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