

Technical Data Sheet

Applications

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

Product Description

MXSTEN® CV77544 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. No processing aid for melt fracture control is intentionally added to this product.

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® CV77544 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.

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