

Technical Data Sheet

Applications

- Frozen & fresh food packaging
- Ice bags
- Heavy duty produce bags

Product Description

ELEVATE® EF510 is a 10% vinyl acetate copolymer designed for flexible packaging that requires excellent toughness, low temperature brittleness, and heat sealing characteristics. It also has high melt strength which imparts good bubble stability during film processing.

Typical Physical Properties

Property ^a		Test Method ^b	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.55 g/10 min
Density		D 1505	932 kg/m ³ (0.932 g/cm ³)
DSC Melting Point		D 3418	95°C (203°F)
Vicat Softening Point		D 1525	78°C (172°F)
Haze		D 1003	4.4%
Gloss @ 45°		D 2457	72
Dart Impact		D 1709	530 g
Tensile Strength @ Break	M.D.	D 882	25.9 MPa (3,750 psi)
	T.D.	D 882	27.6 MPa (4,000 psi)
Elongation	M.D.	D 882	415%
	T.D.	D 882	750%
1% Secant Modulus	M.D.	D 882	86.2 MPa (12,500 psi)
	T.D.	D 882	100.0 MPa (14,500 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 2.0 mils; blow up ratio 2.5:1, die gap 35 mils.

Processing

Melt temperatures of 360°F – 390°F are recommended for EF510 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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