

ELEVATE™ EF529

Ethylene Vinyl Acetate Copolymer

Westlake Chemical Corporation

Message:

Westlake ELEVATE™ EF529AA is an ethylene vinyl acetate copolymer with 18.5% VA. EF529AA does not contain slip or antiblock, and is designed for blown and cast films requiring excellent optics and low heat seal initiation. High melt strength makes EF529AA an excellent choice for profile extrusions, molding, and foaming applications requiring medium VA content.

Application/Uses:

- Flexible packaging films
- Peelable seals, adhesive layers
- Injection and blow molding
- Profile extrusions, tubing, wire & cable

General Information			
Features	Copolymer		
	Optical		
	Good heat sealability		
	Good melt strength		
Uses	Packaging		
	Films		
	Blow molding applications		
	Wire and cable applications		
	Pipe fittings		
	cast film		
	Foam		
	Profile		
	Adhesive		
Agency Ratings	FDA 21 CFR 177.1350		
	USP Class VI		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	2.5	g/10 min	ASTM D1238
Vinyl Acetate Content	18.5	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus ¹			ASTM D882

1% secant, MD: 32 µm, blown film	42.1	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	50.3	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 32 µm, blown film	24.8	MPa	ASTM D882
TD: Broken, 32 µm, blown film	24.1	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 32 µm, blown film	600	%	ASTM D882
TD: Broken, 32 µm, blown film	800	%	ASTM D882
Dart Drop Impact ⁴ (32 µm, Blown Film)	290	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.0	°C	ASTM D1525
Peak Melting Temperature	85.0	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm, Blown Film)	82		ASTM D2457
Haze (31.8 µm, Blown Film)	3.6	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Blown Film Melt Temperature		°C	
Cast Film Melt Temperature		°C	
Typical film property as measured on a 1.25 mil blown film sample fabricated at a 2.5:1 B.U.R.			
NOTE			

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|----|---|
| 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. | Test run at 23°C (73°F) and 50% relative humidity |

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