

ELEVATE™ EF524

Ethylene Vinyl Acetate Copolymer

Westlake Chemical Corporation

Message:

Westlake ELEVATE™ EF524 is an ethylene vinyl acetate copolymer with 14.5% VA. EF524 is designed for blown and cast films requiring excellent optics and low heat seal initiation. High melt strength makes EF524 an excellent choice for profile extrusions, molding, and foaming applications requiring high 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		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ASTM D1238
Vinyl Acetate Content	14.5	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 51 µm, blown film	51.7	MPa	ASTM D882
1% secant, TD: 51 µm, blown film	55.2	MPa	ASTM D882

Tensile Strength ²			ASTM D882
MD: Broken, 51 µm, blown film	22.1	MPa	ASTM D882
TD: Broken, 51 µm, blown film	20.7	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 51 µm, blown film	700	%	ASTM D882
TD: Broken, 51 µm, blown film	1000	%	ASTM D882
Dart Drop Impact ⁴ (51 µm, Blown Film)	380	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.0	°C	ASTM D1525
Peak Melting Temperature	90.0	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss ⁵ (45°, 50.8 µm, Blown Film)	87		ASTM D2457
Haze ⁶ (50.8 µm, Blown Film)	1.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Blown Film Melt Temperature		°C	
Cast Film Melt Temperature		°C	

Typical film properties as measured on a 2.0 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 |
| 5. | As measured on AA formulation which contains no slip and no antiblock. |
| 6. | As measured on AA formulation which contains no slip and no antiblock. |

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