

ELEVATE™ EF439

Ethylene Vinyl Acetate Copolymer
Westlake Chemical Corporation

Message:

Westlake EF439 resin is a 4.0% EVA copolymer designed for films that require excellent haze and gloss and impact strength. This Kosher compliant resin also has excellent heat sealing characteristics and low temperature brittleness properties.

Application/Uses:

High clarity packaging

High impact

General Information			
Features	Kosher certification		
	Highlight		
	Copolymer		
	Impact resistance, high		
	Good heat sealability		
	Low temperature resistance		
	Definition, high		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1350		
Processing Method	Blow film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	1.4	g/10 min	ASTM D1238
Vinyl Acetate Content	4.0	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 32 µm, blown film	145	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	179	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 32 µm, blown film	27.6	MPa	ASTM D882
TD: Broken, 32 µm, blown film	21.4	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 32 µm, blown film	300	%	ASTM D882
TD: Broken, 32 µm, blown film	600	%	ASTM D882
Dart Drop Impact ⁴ (32 µm, Blown Film)	250	g	ASTM D1709
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 31.8 µm, Blown Film)	72		ASTM D2457
Haze (31.8 µm, Blown Film)	4.4	%	ASTM D1003
Additional Information			
Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.			
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 199	°C	
Extrusion instructions			
Melt temperatures of 360° F - 390° F are recommended for Westlake Chemical EF439 with blow-up ratios of 1.5:1 or higher.			
NOTE			
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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