

# Westlake LDPE EF403

Low Density Polyethylene  
Westlake Chemical Corporation

Message:

WESTLAKE polyethylene EF403 is a fractional melt low-density formulation suggested for use in clarity shrink applications. This LDPE formula exhibits excellent shrinkability, and has very good optical properties.

Application/Uses:

Medium duty produce bags

Good clarity shrink film

Bags for textile items

Beverage/Bottle overwrap

General Information	
Features	Kosher certification
	Low density
	Optical
	Definition, high
	High shrinkage
Uses	Films
	Bags
	Textile applications
	Shrinkable film
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film
	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	
secant modulus <sup>1</sup>			ASTM D882
1% secant, MD: 32 µm, blown film	179	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	221	MPa	ASTM D882
Tensile Strength <sup>2</sup>			ASTM D882
MD: Broken, 32 µm, blown film	30.3	MPa	ASTM D882
TD: Broken, 32 µm, blown film	23.4	MPa	ASTM D882
Tensile Elongation <sup>3</sup>			ASTM D882

MD: Broken, 32 µm, blown film	500	%	ASTM D882
TD: Broken, 32 µm, blown film	700	%	ASTM D882
Dart Drop Impact <sup>4</sup> (32 µm, Blown Film)	130	g	ASTM D1709
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm, Blown Film)	75		ASTM D2457
Haze (31.8 µm, Blown Film)	4.0	%	ASTM D1003

#### Additional Information

Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils. Melt temperatures of 360° F - 390° F are recommended for Westlake Chemical EF403 with blow-up ratios of 1.5:1 or higher.

Extrusion	Nominal Value	Unit
Melt Temperature	182 - 199	°C

#### 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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