

# Westlake LDPE EF378

Low Density Polyethylene  
Westlake Chemical Corporation

Message:

WESTLAKE EF378 is suggested for cast film applications. It has excellent haze and gloss, good strength, good processability, and good heat sealability.

Application/Uses

Diaper liners

General purpose clarity

General Information			
Features	Highlight		
	Workability, good		
	Good strength		
	Good heat sealability		
	Definition, high		
	General		
Uses	Lining		
	General		
	Consumer goods application field		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	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	172	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	200	MPa	ASTM D882
Tensile Strength <sup>2</sup>			ASTM D882
MD: Broken, 32 µm, blown film	24.1	MPa	ASTM D882
TD: Broken, 32 µm, blown film	18.6	MPa	ASTM D882
Tensile Elongation <sup>3</sup>			ASTM D882
MD: Broken, 32 µm, blown film	350	%	ASTM D882
TD: Broken, 32 µm, blown film	700	%	ASTM D882

Dart Drop Impact <sup>4</sup> (32 μm, Blown Film)	80	g	ASTM D1709
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	70		ASTM D2457
Haze (31.8 μm, Blown Film)	5.5	%	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 EF378 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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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

