

Westlake LDPE EF677

Low Density Polyethylene
Westlake Chemical Corporation

Message:

Westlake EF677 is a high melt index LDPE resin suggested for garment films, or other applications requiring excellent drawdown. This material is also an excellent choice for PE foam applications.

Application/Uses:

High drawdown garment films

Laundry and dry cleaning films

General Information			
Features	Workability, good		
	Good stripping		
Uses	Films		
	Foam		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 51 µm, blown film	138	MPa	ASTM D882
1% secant, TD: 51 µm, blown film	152	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 51 µm, blown film	20.7	MPa	ASTM D882
TD: Broken, 51 µm, blown film	15.2	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 51 µm, blown film	250	%	ASTM D882
TD: Broken, 51 µm, blown film	600	%	ASTM D882
Dart Drop Impact ⁴ (51 µm, Blown Film)	95	g	ASTM D1709
Additional Information			
Test specimens for blown film: nominal thickness 2.0 mils; blow up ratio 2.5:1, die gap 35 mils.Melt temperatures of 360° F - 400° F are recommended for Westlake Chemical EF677 with blow-up ratios of 1.5:1 or higher			
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 204	°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

