

Westlake LDPE EF601

Low Density Polyethylene
Westlake Chemical Corporation

Message:

Westlake EF601 is a fractional melt LDPE with excellent toughness. It is suggested in heavy duty films and shipping sacks, and in industrial shrink applications. It can be used as a bubble stabilizer in LLDPE rich films.

- Application/Uses:
- Heavy duty bags
 - Heavy duty shipping sacks
 - Industrial shrink film
 - Heavy duty C&A sheeting

General Information			
Features	Good toughness		
Uses	Films		
	Bags		
	Sheet		
	Shrinkable film		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 51 µm, blown film	152	MPa	ASTM D882
1% secant, TD: 51 µm, blown film	193	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 51 µm, blown film	24.1	MPa	ASTM D882
TD: Broken, 51 µm, blown film	18.6	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 51 µm, blown film	250	%	ASTM D882
TD: Broken, 51 µm, blown film	750	%	ASTM D882

Dart Drop Impact ⁴ (51 μm, Blown Film)	500	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 EF601 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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