

Westlake LDPE EF603

Low Density Polyethylene
Westlake Chemical Corporation

Message:

Westlake EF603 is a LDPE resin with excellent toughness and processability. It is suggested in heavy duty films and medium duty shrink applications. It can be used as a bubble stabilizer in LLDPE rich films.

- Application/Uses
- Heavy duty refuse bags & liners
 - Medium duty shrink film
 - Bundling film

General Information			
Features	Ultra-high impact resistance		
	High tensile strength		
	Workability, good		
	Good heat sealability		
Uses	Films		
	Lining		
	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)	1.2	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	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	30.3	MPa	ASTM D882
TD: Broken, 51 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 51 µm, blown film	180	%	ASTM D882
TD: Broken, 51 µm, blown film	690	%	ASTM D882

Dart Drop Impact ⁴ (51 μm, Blown Film)	130	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 EF603 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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