

Westlake LLDPE LF1040

Linear Low Density Polyethylene

Westlake Chemical Corporation

Message:

Westlake LF1040 is a butene LLDPE resin with excellent mechanical and sealing properties. It can be used in stretch film and can liner applications, and is suitable for blending with LDPE in packaging applications.

Application/Uses

Blend stock

Food packaging

Stretch wrap

General Information	
Features	Butene comonomer
	Good heat sealability
Uses	Films
	Lining
	Mixing
	Stretch winding
	Food packaging
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)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 25 µm, blown film	193	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	214	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 25 µm, blown film	27.6	MPa	ASTM D882
TD: Broken, 25 µm, blown film	21.4	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 25 µm, blown film	700	%	ASTM D882
TD: Broken, 25 µm, blown film	900	%	ASTM D882
Dart Drop Impact ⁴ (25 µm, Blown Film)	110	g	ASTM D1709A

Additional Information		
Test specimens for blown film: nominal thickness 1.0 mils fabricated at 2.5:1 BUR.		
Extrusion	Nominal Value	Unit
Melt Temperature	204 - 216	°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.	F50	

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