

Westlake LLDPE LF1020

Linear Low Density Polyethylene

Westlake Chemical Corporation

Message:

Westlake LF1020 is a butene LLDPE with excellent mechanical and downgauging advantages. It is suitable for can liners, stretch wrap, agricultural film, and blending with LDPE. This product is available with various slip and antiblock formulations.

Application/Uses:

- Stretch wrap
- Agricultural films
- Trash bags
- Co-extruded structures

General Information			
Features	Butene comonomer		
Uses	Films		
	Lining		
	Bags		
	Mixing		
	Stretch winding		
	Agricultural application		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	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	186	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	207	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Yield, 25 µm, blown film	10.3	MPa	ASTM D882
TD: Yield, 25 µm, blown film	10.3	MPa	ASTM D882
MD: Broken, 25 µm, blown film	35.9	MPa	ASTM D882
TD: Broken, 25 µm, blown film	24.8	MPa	ASTM D882
Dart Drop Impact ³ (25 µm, Blown Film)	120	g	ASTM D1709A

Optical	Nominal Value	Unit	Test Method
Haze (25.4 μ m, Blown Film)	15	%	ASTM D1003
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.	F50

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