

Westlake LLDPE LF1050

Linear Low Density Polyethylene

Westlake Chemical Corporation

Message:

Westlake LF1050 is a butene LLDPE with high stiffness suitable for cast film extrusion. This material can be used at 100% or as blending stock with LDPE or mPE.

Application/Uses:

Cast Film Extrusion

Profile Cast Film

Blend resin for GP Packaging

General Information	
Features	Butene comonomer
	Rigidity, high
Uses	Packaging
	Mixing
	cast film
	Profile
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Extrusion
	cast film

Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	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, cast film	213	MPa	ASTM D882
1% secant, TD: 25 µm, cast film	248	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Yield, 25 µm, extruded film	11.7	MPa	ASTM D882
TD: Yield, 25 µm, extruded film	12.4	MPa	ASTM D882
MD: Broken, 25 µm, extruded film	32.4	MPa	ASTM D882
TD: Broken, 25 µm, extruded film	21.4	MPa	ASTM D882
Tensile Elongation ³			ASTM D882
MD: Broken, 25 µm, extruded film	700	%	ASTM D882
TD: Broken, 25 µm, extruded film	800	%	ASTM D882

Dart Drop Impact ⁴ (25 µm, Cast Film)	90	g	ASTM D1709A
Elmendorf Tear Strength ⁵			ASTM D1922
MD: 25 µm, cast film	60	g	ASTM D1922
TD: 25 µm, cast film	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45, 25.4 µm, cast film)	90		ASTM D2457
Haze (25.4 µm, Cast Film)	2.0	%	ASTM D1003

Additional Information

Test specimens for cast film: nominal thickness 1.0 mils; 13 lbs/die inch @ 525° F melt temperature and 70° F chill roll temperature.

Extrusion	Nominal Value	Unit
Melt Temperature	260 - 288	°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 |
| 5. | Test run at 23°C (73°F) and 50% relative humidity |

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