

Westlake LLDPE LF2020

Linear Low Density Polyethylene

Westlake Chemical Corporation

Message:

Westlake LF2020 is a hexene LLDPE with excellent physical properties and heat sealing characteristics, which allow for down-gauging and blending with other materials. Typical applications include stretch films, heavy duty bags and sacks, agricultural films, and trash bags & liners. This material is available with various slip and antiblock levels.

Application/Uses:

Bags and sacks

Agricultural films

Trash bags and line

Co-extruded structures

General Information	
Features	Good dimensional stability hexene comonomer Good heat sealability
Uses	Films Lining Bags Mixing Agricultural application Heavy packing bag
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film Co-extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	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	207	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	248	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Broken, 25 µm, blown film	40.7	MPa	ASTM D882
TD: Broken, 25 µm, blown film	28.3	MPa	ASTM D882

Tensile Elongation ³			ASTM D882
MD: Broken, 25 µm, blown film	670	%	ASTM D882
TD: Broken, 25 µm, blown film	900	%	ASTM D882
Dart Drop Impact ⁴ (25 µm, Blown Film)	220	g	ASTM D1709A
Optical	Nominal Value	Unit	Test Method
Haze (25.4 µm, 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. | Test run at 23°C (73°F) and 50% relative humidity |
| 4. | F50 |

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