

# Westlake LDPE EF 311

Low Density Polyethylene  
Westlake Chemical Corporation

Message:

WESTLAKE polyethylene EF311 is a low-density polyethylene suggested for cast film clarity applications. This material has very good optical properties, and is suggested for bakery films and soft goods packaging.

Application/Uses

Bakery bags

Soft goods packaging

High clarity packaging

General Information	
Features	Kosher certification
	Optical
	Workability, good
	Good heat sealability
	Good toughness
Uses	Packaging
	Films
	Bags
	cast film
	Food packaging
Agency Ratings	FDA not rated
Forms	Particle
Processing Method	Extrusion
	cast film

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD: 32 µm, blown film	165	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	193	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 32 µm, blown film	22.8	MPa	ASTM D882
TD: Broken, 32 µm, blown film	17.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	550	%	ASTM D882

TD: Broken, 32 μm, blown film	750	%	ASTM D882
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	77		ASTM D2457
Haze (31.8 μm, Blown Film)	4.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Dart Impact <sup>1</sup> (31.8 μm)	29.0	kN/m	ASTM D1709
Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.			
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 199	°C	
NOTE			
1.	Blown Film		

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#### Recommended distributors for this material

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