

Westlake LDPE EF310

Low Density Polyethylene
Westlake Chemical Corporation

Message:

WESTLAKE polyethylene EF310 is a low-density polyethylene suggested for cast film bakery applications. This material has outstanding optical and processing properties.

Application/Uses

Bakery bags

Soft goods packaging

High clarity packaging

Bags for textile items

General Information			
Features	Kosher certification		
	Optical		
	Workability, good		
	Good heat sealability		
	Definition, high		
	Good toughness		
Uses	Packaging		
	Films		
	Bags		
	Textile applications		
	cast film		
	Food packaging		
Agency Ratings	FDA not rated		
Forms	Particle		
Processing Method	Extrusion		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	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	186	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	228	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 32 µm, blown film	23.4	MPa	ASTM D882

TD: Broken, 32 μm, blown film	22.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 μm, blown film	580	%	ASTM D882
TD: Broken, 32 μm, blown film	750	%	ASTM D882
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	80		ASTM D2457
Haze (31.8 μm, Blown Film)	3.8	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Dart Impact ¹ (31.8 μm)	38.6	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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