Westlake LDPE EF412

Low Density Polyethylene

Westlake Chemical Corporation

Message:

WESTLAKE polyethylene EF412 is a low-density polyethylene with very good optical and strength properties. This material is an excellent choice for bakery films and food packaging applications.
Application/Uses
General purpose clarity packaging
Medium duty produce
Bakery bags
Bags for textile items

General Information	
Features	Low density Optical Good strength
Uses	Films Bags Textile applications Food packaging General
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
secant modulus [1]			ASTM D882
1% secant, MD: 32 µm, blown film	172	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	200	MPa	ASTM D882
Tensile Strength [2]			ASTM D882
MD: Broken, 32 µm, blown film	24.1	MPa	ASTM D882
TD: Broken, 32 µm, blown film	18.6	MPa	ASTM D882
Tensile Elongation [3]			ASTM D882
MD: Broken, 32 µm, blown film	350	%	ASTM D882

TD: Broken, 32 µm, blown film	700	%	ASTM D882
Dart Drop Impact [4] (32 µm, Blown Film)	100	g	ASTM D1709
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 31.8 µm, Blown Film)	76		ASTM D2457
Haze (31.8 µm, Blown Film)	4.2	%	ASTM D1003
Additional Information			
Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.Melt temperatures of 360° F - 390° F are recommended for Westlake Chemical EF412 with blow-up ratios of 1.5:1 or higher			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	182 - 199	°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		

Recommended distributors for this material

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