

## Westlake EP413 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

### Material Notes:

WESTLAKE polyethylene EP413 is a low-density polyethylene recommended for blown or cast film clarity applications. This material has very good optical properties, and is suggested for bakery films , produce bags, and general purpose clarity applications. Application/Uses General purpose clarity Medium duty produce bags Bakery bags Bags for textile items FDA: This material complies with FDA regulations in 21 CFR, section 177.1520. Kosher Compliant. All information provided by Westlake Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Westlake-EP413-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Westlake-EP413-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in <sup>3</sup>	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	485 %	485 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Dart Drop	3.94 g/micron	100 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Break, TD	17.2 MPa	2500 psi	ASTM D882
1% Secant Modulus, MD	186 MPa	27000 psi	ASTM D882
1% Secant Modulus, TD	207 MPa	30000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	80 %	80 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 199 °C	360 - 390 °F	with BUR of 1.5:1 or higher
Blow-up Ratio (BUR)	2.5	2.5	

Descriptive Properties	Value	Comments
Process	Blown Film	
	Film	
Region	US & Canada	Bamberger Polymers Distribution

## Contact Songhan Plastic Technology Co.,Ltd.

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