

Westlake EF1807 Low Density Polyethylene

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

Material Notes:

Westlake Polyethylene EF1807 is a low density formulation suggested for film applications that require toughness. Application/Uses Shrink film Frozen food packaging 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-EF1807-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	38.1 microns	1.50 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Dart Drop Test	110 g	0.243 lb	ASTM D1709
Film Tensile Strength at Break, MD	33.1 MPa	4800 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 MPa	3100 psi	ASTM D882
1% Secant Modulus, MD	221 MPa	32000 psi	ASTM D882
1% Secant Modulus, TD	276 MPa	40000 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 - 193 °C	360 - 380 °F	with BUR of 2.4:1 or higher
Blow-up Ratio (BUR)	2.4	2.4	

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

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