

Westlake EF418 Low Density Polyethylene

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

Material Notes:

WESTLAKE polyethylene EF418 is a LDPE formula with excellent optical properties suggested by light and medium duty packaging. Application/Uses Light and medium duty produce bags Clarity packaging General purpose 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-EF418-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.9235 g/cc	0.03336 lb/in ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.25 g/10 min @Load 2.16 kg, Temperature 190 °C	1.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Dart Drop	4.33 g/micron	110 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Break, TD	18.6 MPa	2700 psi	ASTM D882
1% Secant Modulus, MD	207 MPa	30000 psi	ASTM D882
1% Secant Modulus, TD	241 MPa	35000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
Gloss	70 %	70 %	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	Film	

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