

Westlake LF1021 Butene Linear Low Density Polyethylene

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

Material Notes:

Westlake LF1021 is a butene LLDPE with excellent mechanical and downgauging advantages. It is suitable for can liners, stretch wrap, agricultural film, and blending with LDPE. This Kosher compliant product is available with various slip and antiblock formulations. Application/Uses Stretch wrap Agricultural films Trash bags Co-extruded structures 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-LF1021-Butene-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	1.1 g/10 min	1.1 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.3 MPa	1500 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.65 MPa	1400 psi	ASTM D882
Film Elongation at Break, MD	700 %	700 %	
Film Elongation at Break, TD	930 %	930 %	
Elmendorf Tear Strength, MD	5.71 g/micron	145 g/mil	
Elmendorf Tear Strength, TD	18.9 g/micron	480 g/mil	
Dart Drop	4.72 g/micron	120 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	33.1 MPa	4800 psi	ASTM D882
Film Tensile Strength at Break, TD	24.8 MPa	3600 psi	ASTM D882
1% Secant Modulus, MD	165 MPa	24000 psi	ASTM D882
1% Secant Modulus, TD	186 MPa	27000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	55 %	55 %	45°

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 216 °C	400 - 420 °F	
Blow-up Ratio (BUR)	2.5	2.5	

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

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