

Formosa Plastics Formolene® L42009E2 Film (Butene Grade) LLDPE

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Butene, Film

Material Notes:

Butene Copolymer (Low slip and antiblock) Applications: Blown film Blown film Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Film properties taken from sample 25 Microns thick, at a 4:1 Blow Up Ratio, 160 X 2.5 mm die, 250 lbs./hr Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-L42009E2-Film-Butene-Grade-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	25.0 microns	0.984 mil	
Melt Flow	0.95 g/10 min @Load 2.16 kg, Temperature 190 °C	0.95 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238
Antiblock Level	1700 ppm	1700 ppm	
Slip Level	1350 ppm	1350 ppm	[ppm]

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	690 %	690 %	ASTM D882
Film Elongation at Break, TD	920 %	920 %	ASTM D882
Elmendorf Tear Strength, MD	5.91 g/micron	150 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	15.2 g/micron	385 g/mil	ASTM D1922
Dart Drop	5.31 g/micron	135 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	35.2 MPa	5100 psi	ASTM D882
Film Tensile Strength at Break, TD	28.5 MPa	4130 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	20 %	20 %	ASTM D1003
Gloss	40 %	40 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
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Blow Up Ratio
Descriptive Properties

4 to 1
Value

Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China