

Formosa Plastics Formolene® L42009M Film (Butene Grade) LLDPE

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

Material Notes:

Butene Copolymer (High slip and antiblock)Applications: Blown filmBlown filmMeets 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./hrInformation provided by Formosa Plastics Corporation, USA.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-L42009M-Film-Butene-Grade-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in³	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

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	700 %	700 %	ASTM D882
Film Elongation at Break, TD	815 %	815 %	ASTM D882
Elmendorf Tear Strength, MD	6.30 g/micron	160 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	15.7 g/micron	400 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	22.2 MPa	3230 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	27 %	27 %	ASTM D1003
Gloss	36 %	36 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Blow Up Ratio	4 to 1	

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