



Formosa Industries

Formolene® LLDPE

Formolene® LB1820B

Linear Low Density Polyethylene (LLDPE) Resin for Film Extrusion Applications

Formolene® LB1820B is a general-purpose butene based linear low density film grade made using gas-phase technology.

Formolene® LB1820B 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.

Suggested Applications:

Food Packaging

Industrial Liners

Trash Can Liners

Additives:

Antiblock - No

Slip - No

Processing Aid - No

Nominal Values

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.918	g/cc	0.918
Base Resin Density (without additives)	D1505	g/cc	0.918	g/cc	0.918
Melt Index, (190°C/2.16)	D1238	g/10 min.	2.0	g/10 min.	2.0
Film Properties					
Tested Film Thickness		mil	1.0	µm	25
Tensile Strength					
Yield, MD	D882	psi.	1200	MPa	8.5
Yield, TD		psi.	1200	MPa	8.6
Break, MD		psi.	5300	MPa	36.5
Break, TD		psi.	3800	MPa	26.0
Tensile Elongation					
Break, MD	D638	%	660	%	660
Break, TD		%	780	%	780
Dart Drop Impact	D1709A	g	70	g	70
Elmendorf Tear Strength					
MD	D1922	g	120	g	120
TD		g	340	g	340
Thermal Properties					
Vicat Softening Temperature,	D1525	° F	216	° C	102
Melting Temperature (DSC)	ISO3146	° F	250	° C	121
Optical Properties					
Gloss (45°)	D2457		22		22
Haze	D1003	%	29	%	29

Note: Film Properties based on screw size of 3.5 in.; 30:1 ratio L/D and with a 2.5:1 Blow Up Ratio. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.

Published 11/1/2019

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (800) 363-1823 • Fax: (973) 716-7483

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA INDUSTRIES CORPORATION and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting the results, FORMOSA INDUSTRIES CORPORATION MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statement herein, therefore, should not be construed as representations or warranties. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

Formolene® is a registered trademark of Formosa Plastics Corporation, U.S.A. Formosa Industries Corporation is an authorized user of this trademark.