



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.

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