Formosa Industries

Formolene® LH1810B

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

Formolene® LH1810B is a hexene based linear low density film grade designed for applications requiring toughness and excellent process ability.

Formolene® LH1810B 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 Unit	ENGLISH Value	SI Unit	SI Value
Base Density	Internal Method	g/cm^3	0.918	g/cm^3	0.918
Melt Index (190 °C, 2.16 kg)	D1238	g/10 min	1.0	g/10 min	1.0
Tensile Strength at Yield	D882	psi	1750/1700*	MPa	12.1/11.7*
Tensile Strength at Break	D882	psi	5500/5500*	MPa	37.9/37.9*
Tensile Elongation at Break	D882	%	500/500*	%	500/500*
Dart Impact	D1709A	g	200	g	200
Elmendorf Tear Strength	D1922	g	380/600*	g	380/600*

* MD/TD

Available in the following additive packages:

Additive	**LH1810B**	**LH1810H**	**LH1810A**	**LH1810D**
Density (g/cm^3) ASTM D792	0.918	0.919	0.923	0.923
Antiblock (ppm)	None	None	6000	6250
Slip (ppm)	None	None	None	1000
Processing aid	None	None	None	Yes
Special	Barefoot	High Antioxidant	Additives talc based	Additives talc based

Note: Film properties are based on 1.0 mil (25 µm) thickness blown film produced with a 2.5:1 blow-up ratio at 12 lb/hr/in. die. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.
Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm^3. Base density is the estimated density of the polymer if it did not contain any antiblock.

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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

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