



BICSOL LLDPE LL118FA

Linear Low Density Polyethylene

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

LL118FA is a butene based linear low density polyethylene copolymer designed for blown film applications.

LL118FA 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:

Agricultural Films Industrial Liners Industrial Packaging Garment Bags

Additives:

Antiblock – 5000 ppm Slip – 1500 ppm Processing Aid – No

Nominal Values

PROPERTY	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	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	1550/1600*	MPa	10.7/11.0*
Tensile Strength at Break	D882	psi	5300/3900*	MPa	36.5/26.9*
Tensile Elongation at Break	D882	%	580/690*	%	580/690*
Dart Impact	D1709A	g	90	g	90
Elmendorf Tear Strength	D1922	g	170/320*	g	170/320*

* MD/TD

Additive	
Density (g/cm ³) ASTM D792	0.922
Antiblock (ppm)	5000
Slip (ppm)	1500
Processing aid	None
Special	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/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

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