

Bapolene® 122B

Linear Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LL122B is a general purpose LLDPE for blown film extrusion. This resin offers excellent tensile and toughness properties. Contains no slip and no antiblock additives. This product meets FDA standards for food contact applications.

General Information	
Features	Impact resistance, high
	Good toughness
	Compliance of Food Exposure
	General
Uses	Packaging
	Films
	Bags
	Industrial application
	Food packaging
	General
Agency Ratings	FDA Food Exposure, Not Rated
Processing Method	Film extrusion
	Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus ¹			ASTM D882
1% secant, MD: 25 µm, blown film	208	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	227	MPa	ASTM D882
Tensile Strength ²			ASTM D882
MD: Yield, 25 µm, blown film	10.3	MPa	ASTM D882
TD: Yield, 25 µm, blown film	10.5	MPa	ASTM D882
MD: Broken, 25 µm, blown film	38.7	MPa	ASTM D882
TD: Broken, 25 µm, blown film	28.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film ³	600	%	ASTM D882
TD: Broken, 25 µm, blown film ⁴	800	%	ASTM D882

Dart Drop Impact (25 µm, Blown Film)	90	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	110	g	ASTM D1922
TD: 25 µm, blown film	490	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (25.4 µm, Blown Film)	35		ASTM D2457
Haze (25.4 µm, Blown Film)	19	%	ASTM D1003

Additional Information

Film properties are based on a thickness of 1.0 mil, blow-up ratio of 2.5:1 and 0.1 mm/mm-min Initial Strain Rate.

NOTE

1. 0.10 mm/min
2. 0.10 mm/min
3. 1.0 mm/min
4. 0.10 mm/min

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