

Bapolene® 122F

Linear Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LL122F is a general purpose LLDPE for blown film extrusion applications. This resin offers excellent tensile and toughness properties. Contains medium levels of slip/antiblock additives. This product meets FDA standards for food contact applications.

General Information	
Additive	Moderate caking resistance Moderate smoothness
Features	Good toughness Compliance of Food Exposure General Moderate caking resistance Moderate smoothness
Uses	Films Bags Industrial application Food packaging General
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
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	38	µm	
secant modulus ¹			ASTM D882
MD: 38 µm, blown film	214	MPa	ASTM D882
TD: 38 µm, blown film	248	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	15.9	MPa	ASTM D882
TD: Yield, 38 µm, blown film	16.7	MPa	ASTM D882
MD: Broken, 38 µm, blown film	38.6	MPa	ASTM D882

TD: Broken, 38 μm, blown film	29.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 μm, blown film	560	%	ASTM D882
TD: Broken, 38 μm, blown film	750	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 38 μm, blown film	250	g	ASTM D1922
TD: 38 μm, blown film	620	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (37.6 μm, blown film)	45		ASTM D2457
Haze (37.6 μm, blown film)	14	%	ASTM D1003
Additional Information			
Film properties are based on a thickness of 37.5 μm and blow-up ratio of 2:1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 240	°C	
NOTE			
1.	0.10 mm/min		

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