

Bapolene® 222F

Linear Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LL222F is a general purpose LLDPE for blown film extrusion or cast film applications. This resin offers excellent tensile and toughness properties. It is available with and without slip/antiblock additives. This product meets FDA standards for food contact applications.

General Information			
Additive	Anti-caking agent slip agent		
Features	smoothness Anti-caking property Impact resistance, high Good toughness Compliance of Food Exposure General		
Uses	Films Lining Bags Industrial application Stretch winding General		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film Extrusion cast 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)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	ASTM D882
secant modulus ¹			
MD: 38 µm, blown film	200	MPa	
TD: 38 µm, blown film	241	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 38 µm, blown film	9.00	MPa	ASTM D882
TD: Yield, 38 µm, blown film	9.80	MPa	ASTM D882
MD: Broken, 38 µm, blown film	26.9	MPa	ASTM D882
TD: Broken, 38 µm, blown film	20.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	580	%	ASTM D882
TD: Broken, 38 µm, blown film	800	%	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 (37.5 µm, blown film)	38		ASTM D2457
Haze (37.5 µm, blown film)	20	%	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	199 - 227	°C	
NOTE			

1. 0.10 mm/min

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