

Bapolene® 200F

Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LD200F is a general purpose low density polyethylene for blown film extrusion applications. It 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	Impact resistance, high		
	Definition, high		
	Compliance of Food Exposure		
	General		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Films		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	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	32	µm	
secant modulus ¹			ASTM D882
MD: 32 µm, blown film	193	MPa	ASTM D882
TD: 32 µm, blown film	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	15.2	MPa	ASTM D882
TD: Yield, 32 µm, blown film	12.4	MPa	ASTM D882
MD: Broken, 32 µm, blown film	22.8	MPa	ASTM D882
TD: Broken, 32 µm, blown film	17.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	360	%	ASTM D882
TD: Broken, 32 µm, blown film	580	%	ASTM D882

Dart Drop Impact (32 μ m, Blown Film)	79	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 20 μ m, blown film	570	g	ASTM D1922
TD: 32 μ m, blown film	270	g	ASTM D1922
Optical	Nominal Value		Test Method
Gloss (32.0 μ m, blown film)	67		ASTM D2457
Additional Information			
Film properties are based on a thickness of 32 μ m and blow-up ratio of 2:1.			
NOTE			
1.	0.10 mm/min		

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