

Bapolene® LL100F

Linear Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene LL100F is a general purpose LLDPE for blown film extrusion applications. This resin exhibits 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	High tensile strength		
	Good toughness		
	Compliance of Food Exposure		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Bags		
	Food packaging		
	Heavy packing bag		
Agency Ratings	FDA Food Exposure, Not Rated		
Forms	Particle		
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			ASTM D882
MD	214	MPa	ASTM D882
TD	248	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	15.9	MPa	ASTM D882
TD: Yield	16.7	MPa	ASTM D882
MD: Fracture	38.6	MPa	ASTM D882
TD: Fracture	29.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	560	%	ASTM D882
TD: Fracture	750	%	ASTM D882
Dart Drop Impact (38 µm)	130	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 38 μm	250	g	ASTM D1922
TD : 38 μm	620	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Haze	14	%	ASTM D1003
Additional Information			
Film Thickness, 2:1 blow-up ratio: 37.5 μm Gloss, ASTM D2457: 45%Secant Modulus, ASTM D882, MD, 0.1 mm/mm/min initial strain rate: 214MPaSecant Modulus, ASTM D882, TD, 0.1 mm/mm/min initial strain rate: 248 MPa			
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 240	$^{\circ}\text{C}$	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

