



# Bamberger Polymers

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## Bapolene® Grade LD200F Polyethylene, Film Grade

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### Key Features:

General purpose, medium levels of slip/antiblock additives

### Material Notes:

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.

**Applications:** General purpose clarity applications.

Film properties below are based on a thickness of 32 µm and blow-up ratio of 2:1.

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Information provided by Bamberger Polymers

Physical Properties	Metric	English	Comments
Density	<a href="#">0.92 g/cc</a>	0.0332 lb/in <sup>3</sup>	ASTM D1505
Thickness	<a href="#">32 microns</a>	1.26 mil	2:1 blow-up ratio
Melt Flow	2 g/10 min	2 g/10 min	190°C/2160g; ASTM D-1238
Mechanical Properties			
Film Tensile Strength at Yield, MD	<a href="#">15.2 MPa</a>	2200 psi	ASTM D882
Film Tensile Strength at Yield, TD	<a href="#">12.4 MPa</a>	1800 psi	ASTM D882
Film Tensile Strength at Break, TD	<a href="#">17.9 MPa</a>	2600 psi	ASTM D-882
Film Elongation at Break, MD	<a href="#">360 %</a>	360 %	ASTM D-882
Film Elongation at Break, TD	<a href="#">580 %</a>	580 %	ASTM D-882
Secant Modulus, MD	<a href="#">0.193 GPa</a>	28 ksi	value @ 0.1 mm/mm-min Initial strain rate; ASTM D-882
Secant Modulus, TD	<a href="#">0.207 GPa</a>	30 ksi	value @ 0.1 mm/mm-min Initial strain rate; ASTM D-882
Elmendorf Tear Strength, MD	<a href="#">17.7 g/micron</a>	450 g/mil	ASTM D-1922
Elmendorf Tear Strength, TD	<a href="#">8.3 g/micron</a>	211 g/mil	ASTM D-1922
Dart Drop	<a href="#">2.46 g/micron</a>	62.5 g/mil	26 in. dart; ASTM D-1709, A
Film Tensile Strength at Break, MD	<a href="#">0.157 MPa</a>	22.8 psi	ASTM D-882
Optical Properties			
Gloss	<a href="#">67 %</a>	67 %	ASTM D-2457
Qualitative Processing Properties			

Process

Film

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to our disclaimer and terms of use regarding this information.

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