

## Bapolene® 222F Polyethylene, Film Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

### Material Notes:

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. Applications: Stretch wrap, produce bags, trash bags, drum and box liners. Film properties below are based on a thickness of 37.5 µm and blow-up ratio of 2:1. Bapolene® and Bapolan® are registered trademarks of Bamberger Polymers, Inc. Information provided by Bamberger Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bapolene-222F-Polyethylene-Film-Grade.php](http://www.lookpolymers.com/polymer_Bapolene-222F-Polyethylene-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D1505
Thickness	37.5 microns	1.48 mil	2:1 blow-up ratio
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.80 MPa	1420 psi	ASTM D882
Film Elongation at Break, MD	580 %	580 %	ASTM D-882
Film Elongation at Break, TD	800 %	800 %	ASTM D-882
Secant Modulus, MD	0.200 GPa	29.0 ksi	value @ 0.1 mm/mm-min Initial strain rate; ASTM D-882
Secant Modulus, TD	0.241 GPa	35.0 ksi	value @ 0.1 mm/mm-min Initial strain rate; ASTM D-882
Elmendorf Tear Strength, MD	6.70 g/micron	170 g/mil	ASTM D-1922
Elmendorf Tear Strength, TD	16.6 g/micron	422 g/mil	ASTM D-1922
Film Tensile Strength at Break, MD	26.9 MPa	3900 psi	ASTM D-882
Film Tensile Strength at Break, TD	20.7 MPa	3000 psi	ASTM D-882

Optical Properties	Metric	English	Comments
Haze	20 %	20 %	ASTM D-1003

<b>Gloss</b> Optical Properties	<b>38 %</b> Metric	<b>38 %</b> English	<b>ASTM D-2457</b> Comments
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<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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Melt Temperature	199 - 227 °C	390 - 441 °F	
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<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
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Process	Film	
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Region	Europe/Turkey	Bamberger Polymers Distribution
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	International	Bamberger Polymers Distribution
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	Mexico	Bamberger Polymers Distribution
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	US & Canada	Bamberger Polymers Distribution
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