

Bapolene® 122F Polyethylene, Film Grade

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

Material Notes:

Bapolene LL122F is a general purpose LLDPE for blown film extrusion applications. This resin offers excellent tensile and toughness properties. Contains medium levels of slip/antiblock additives. This product meets FDA standards for food contact applications. Applications: Industrial bags, shipping sacks, frozen food packaging, trash bags. 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-122F-Polyethylene-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	37.6 microns	1.48 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	15.9 MPa	2310 psi	ASTM D882
Film Tensile Strength at Yield, TD	16.7 MPa	2420 psi	ASTM D882
Film Elongation at Break, MD	560 %	560 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Secant Modulus, MD	0.214 GPa	31.0 ksi	Value at 0.1 mm/mm-min Initial Strain Rate; ASTM D882
Secant Modulus, TD	0.248 GPa	36.0 ksi	Value at 0.1 mm/mm-min Initial Strain Rate; ASTM D882
Elmendorf Tear Strength, MD	6.70 g/micron	170 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	16.6 g/micron	422 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	38.6 MPa	5600 psi	ASTM D882
Film Tensile Strength at Break, TD	29.6 MPa	4290 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D1003

<small>Gloss</small> Optical Properties	<small>45 %</small> Metric	<small>45 %</small> English	<small>ASTM D2457</small> Comments
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Processing Properties	Metric	English	Comments
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Melt Temperature	210 - 240 °C	410 - 464 °F	
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Descriptive Properties	Value	Comments
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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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