

Saint-Gobain Norton® PMP Film

Category : Polymer , Film , Thermoplastic , Polymethylpentene (PMP)

Material Notes:

Features/Benefits: Good release properties for up to 180°C (356°F) cure composites (application dependent) low density for high surface area per pound Excellent clarity Thermoformable Product available in standard widths up to 60" Product available with a minimum thickness of 0.0012" (30µm) Clear or blue films Low Density, High Yield Polymethylpentene Film Norton® PMP film is manufactured from polymethylpentene (PMP) copolymer resin. This product offers high temperature resistance, superior optical characteristics, and lowest density among all polymer materials to deliver superior performance at a value price point. **Optical/Lamination Applications** Norton® PMP is manufactured with a gloss finish without plasticizers, stabilizers, or other processing aids, offering a clean surface for laminate manufacturing. Medical device manufacturers receive a high-clarity product well suited for optical measurement requirements. The non-stabilized polymer provides integrity for tested samples and a high surface coverage due to the low density. **Composite Fabrication** Norton® PMP offers manufacturers of composite products a material which will perform up to 180°C (356°F), depending on the specific application, for autoclave constructions. Applications such as golf shaft manufacture, aircraft lavatory components, and printed circuit boards benefit from the high surface area yield (due to the low density of this polymer), offering productivity savings for a single use product. Flexible printed circuit constructions utilize the release characteristics of Norton® PMP to provide protection from flowing adhesives during lamination processes. **Rubber Manufacturing** Norton® PMP film is an excellent candidate for applications involving the curing of rubber films and sheets. The excellent release characteristics and the non-plasticized formulation are advantageous for curing silicone rubber where coated PET may be unacceptable. **Surface Treatment Available:** Corona Treatment (1 or 2 sides) Used for Aerospace/Release Films, Electrical/Electronics Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Norton-PMP-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.835 g/cc	0.835 g/cc	ASTM D-792
Water Absorption	0.010 %	0.010 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.1 MPa	3200 psi	ASTM D-882
Elongation at Break	180 %	180 %	ASTM D-882
Tensile Modulus	1.03 GPa	150 ksi	ASTM D-882

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C	65.0 µin/in-°F	ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.97 J/g-°C	0.470 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
Melting Point	240 Å°C	464 Å°F	ASTM D-3418
Maximum Service Temperature, Air	160 Å°C	320 Å°F	UL-746 B
Vicat Softening Point	160 Å°C	320 Å°F	ASTM D1525
Flammability, UL94	HB	HB	
Oxygen Index	>= 20 %	>= 20 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.46	1.46	ASTM D542

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.1	2.1	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	197 kV/mm	5000 kV/in	ASTM D-149

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