

## Saint-Gobain Norton® PVDF Fluoropolymer Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer , PVDF

### Material Notes:

**Features/Benefits:**Excellent weatherabilityHigh dielectric strengthExcellent chemical and abrasion resistanceThermoformableProduct available in widths up to 60"Product available with thicknesses from 0.001" (0.0254 mm) to 0.020" (0.5 mm)Temperature range of -62Â°C (-80Â°F) to 150Â°C (300Â°F)Weatherable, Chemically Resistant Fluoropolymer FilmNorton® PVDF film is manufactured from polyvinylidene fluoride resin. This product offers the best weathering characteristics of any fluoropolymer film available. Norton® PVDF provides very good performance when subjected to severe conditions such as heat fluctuation, UV exposure, and corrosive environments. Norton® PVDF is manufactured to strict standards for gels and gauge control, offering the best value for fluoropolymer performance of any film. This material also performs over a wide temperature range, from -62Â°C (-80Â°F) to 150Â°C (300Â°F).Chemical ProtectionNorton® PVDF film protects against exposure to many common acids, oxidizing agents, and organics. This broad range of chemical resistance makes Norton® PVDF an excellent candidate for pump diaphragms and tank linings. The thin gauge films offer bondability for protection of equipment exposed to air pollutants, corrosive media, and weather.Decorative ApplicationsNorton® PVDF film can be adaptable to metallizing or printing for a variety of protective applications. The excellent chemical resistance to a wide range of cleaners and harsh cleaning agents used in high traffic applications offers long maintenance performance. Norton® PVDF carries a UL V-0 flammability rating, which signifies self-extinguishing performance suited for aircraft interior panel applications.Weathering ApplicationsThe outstanding weatherability of Norton® PVDF film makes it an excellent candidate for products with outdoor exposures. Vinyl siding is protected with excellent chemical and abrasion resistance of Norton® PVDF film. The fluoropolymer properties are impervious to UV exposure and eliminate wear due to water and chemical exposures. PVDF = polyvinylidene fluorideUsed for Chemical Process, Electrical/Electronics, Protective/Decorative.Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Norton-PVDF-Fluoropolymer-Film.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Norton-PVDF-Fluoropolymer-Film.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.78 g/cc	1.78 g/cc	ASTM D-792
Water Absorption	<= 0.040 %	<= 0.040 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 - 49.6 MPa	5000 - 7200 psi	ASTM D-882
Elongation at Break	100 - 250 %	100 - 250 %	ASTM D-882
Tensile Modulus	2.48 GPa	360 ksi	ASTM D-882

Thermal Properties	Metric	English	Comments
CTE, linear	119 - 139 Âµm/m-Â°C	66.0 - 77.0 Âµin/in-Â°F	ASTM D-696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
		0.280 - 0.380 BTU/lb-	

Specific Heat Capacity Thermal Properties	1.17 - 1.59 J/g-Â°C Metric	Â°F English	Comments
Thermal Conductivity	0.199 W/m-K	1.38 BTU-in/hr-ftÂ²-Â°F	ASTM D-2863
Melting Point	174 Â°C	345 Â°F	ASTM D-3418
Maximum Service Temperature, Air	129 Â°C	265 Â°F	UL-746 B
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 44 %	>= 44 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.40	1.40	ASTM D542

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+14 ohm	1.00e+14 ohm	ASTM D-257
Dielectric Constant	8.2 - 10 @Frequency 1000 Hz	8.2 - 10 @Frequency 1000 Hz	ASTM D-150
Dielectric Strength	157 kV/mm	4000 kV/in	ASTM D-149
Dissipation Factor	0.0050 - 0.020	0.0050 - 0.020	ASTM D-150

Descriptive Properties	Value	Comments
Fold Endurance (MIN)	26000	ASTM D2176

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