

Saint-Gobain Norton® Chemfilm® DF100 Fluoropolymer Cast Film

Category : Polymer , Film , Thermoplastic , Fluoropolymer

Material Notes:

Description: Used for Chemical Process, Electrical/Electronics, Medical, Protective/Decorative. Surface Treatments Available: Chemical Etching (1 or 2 sides). Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Norton-Chemfilm-DF100-Fluoropolymer-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 g/cc	ASTM D-792
Water Absorption	<= 0.010 %	<= 0.010 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.6 MPa	4300 psi	ASTM D-882
Elongation at Break	400 %	400 %	ASTM D-882
Tensile Modulus	0.414 GPa	60.0 ksi	ASTM D-882

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D-696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Melting Point	327 $\text{Å}^\circ\text{C}$	620 $\text{Å}^\circ\text{F}$	ASTM D-3418
Maximum Service Temperature, Air	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	UL-746 B
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	9.00e+17 ohm	9.00e+17 ohm	ASTM D-257
Dielectric Constant	2.0	2.0	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	165 kV/mm	4200 kV/in	ASTM D-149

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