

2000 Series

CHEMFILM® 2000 Series combines fluoropolymers offering the highest temperature rating and the best electrical properties with the mechanical integrity and dielectric strength of polyimide film. Heat sealable surfaces allow the tape to be sealed to itself and other layers of fluoropolymer tape wrap insulation at regular wire processing temperatures. The fully sintered fluoropolymer base resin enables the films to be wrapped directly over the conductor.

Performance

Test programs in both military and commercial aircraft markets indicate the benefits of a proper ratio between fluoropolymer and polyimide for maximum protection against arc propagation and failure.

Typical Properties

Product Number		DF2404	DF2909	DF2919	DF2929
	Method	Value			
Gauge (mil)		1.50	1.75	2.00	3.00
Specific Gravity	ASTM D792-50	1.83	1.87	1.70	1.69
Yield (ft. ² /lb.)		72.2	58.6	54.0	38.7
Tensile Strength (psi)	ASTM D882-54T	19,000	19,000	18,000	21,000
Elongation (%)		100	100	100	100
Tear Resistance (psi)	ASTM D1004	900	900	1,000	1,300
Elastic Modulus (psi)	ASTM D8822	50,000	250,000	250,000	350,000
Dielectric Constant, 60-10 ⁸ Hz	ASTM D150	2.58	2.60	2.60	2.80
Power/Dissipation	ASTM D150	.006	.010	.010	.013
Surface Resistivity	ASTM D257	3.2 x10 ¹⁶	4.0 x10 ¹⁷	4.5 x10 ¹⁷	3.8 x10 ¹⁷

Values shown are typical. Certified test reports for writing specifications are available.

Available in slit widths down to 1/8", supplied in pad rolls or universal traverse packages. Minimum quantities apply.

The data listed herein fall within the normal range of product properties for the products described, but they should not be used to establish specification limits nor used alone as the basis of design. Saint-Gobain assumes no obligation or liability for any advice furnished by it or for results obtained with respect to these products. All such advice is provided gratis and Buyer assumes sole responsibility for results obtained in reliance thereon. Saint-Gobain warrants that the material itself does not infringe any United States patent, but no license is implied nor is any further warranty made.

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Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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