

HEAT SEALABLE POLYIMIDE - FLUOROPOLYMER TAPES

VERSIV™ POLYIMIDE - FLUOROPOLYMER TAPES provide excellent electrical, thermal, physical and chemical properties over a wide temperature range in a lightweight package, making them superior for rigorous electrical insulation applications. VERSIV™ polyimide tapes are dimensionally stable, inherently isotropic, physically strong and electrically sound. Saint-Gobain combines polyimide with heat sealable FEP, PFA or PTFE in multiple configurations to function in extreme environments.

**Previously known as*

FLUOROWRAP® POLYIMIDE - FLUOROPOLYMER TAPES



FEATURES AND BENEFITS

- High temperature electrical insulation
- Dimensionally stable
- Cut-through resistant
- High dielectric strength
- Meets requirements of ASTM D5213 Type II Class A
- Exceeds UL 94 V-0 flammability
- 455 °F (235 °C) Relative Thermal Index (RTI) for both electrical and mechanical properties (UL file E231847)
- RoHS and REACH compliant

APPLICATIONS

- Wire and Cable for extreme environments
- Magnet wires
- Aircraft power cable
- Electrical submersible pump motors and power cables
- Fuel cells/Electrolyzer
- Low Friction applications

AVAILABILITY

Product	Overall Thickness	Outside	Core	Outside
120FH616	1.2 mil (0.030 mm)	FEP 0.10 mil (0.003 mm)	TH Polyimide 1.0 mil	FEP 0.10 mil (0.003 mm)
150FH019	1.5 mil (0.038 mm)	-	TH Polyimide 1.0 mil	FEP 0.50 mil (0.013 mm)
150PH019	1.5 mil (0.038 mm)	-	TH Polyimide 1.0 mil	PFA 0.50 mil (0.013 mm)
DF2919	2.0 mil (0.051 mm)	PTFE/White Pigment 0.50 mil (0.013 mm)	TH Polyimide 1.0 mil	PTFE/White Pigment 0.50 mil (0.013 mm)
DF2919N	2.0 mil (0.051 mm)	PTFE - No Pigment 0.50 mil (0.013 mm)	TH Polyimide 1.0 mil	PTFE - No Pigment 0.50 mil (0.013 mm)
DF2929N-SP	2.7mil (0.068 mm)	PTFE 0.35 mil (0.089 mm)	TH Polyimide 2.0 mil	PTFE 0.35 mil (0.089 mm)

Tape widths available at 0.10" (2.5 mm) and wider. Tapes are available on industry standard 3" (76mm) ID cores in flat-pad, traverse wound and StablEdge™ packages. Split wall cores are available for traverse and StablEdge™ wound products with a standard length of 2-3/4" (70 mm). Roll lengths are dependent upon the width of the product. Heat-sealed splices will be used for longer roll lengths. Customized solutions available.

*Pictures shown are for illustration purpose only.

TYPICAL PROPERTIES

Property	120FH616	150FH019	150PH019	DF2919	DF2919N	Units
Thickness	1.2	1.5	1.5	2.0	2.0	mils
	0.030	0.038	0.038	0.051	0.051	mm
Tolerance (+/-)	0.08	0.25	0.30	0.20	0.20	mils
	0.002	0.006	0.008	0.005	0.005	mm
Weight	1.39	1.87	1.9	2.93	-	oz/yd ²
	47.13	63.40	64.42	-	99.50	g/m ²
Density	1.573	1.687	1.687	1.75	1.95	g/cm ³
Tensile Strength (minimum)	30	24	24	12	12	kpsi
	207	165	165	83	83	MPa
Elongation (minimum)	85	85	85	40	40	%
Shrinkage	<0.05	<0.05	<0.05	<0.05	<0.05	%
Moisture Absorption	<2.0	<2.0	<2.0	<2.0	<2.0	%
Dielectric Strength	7,000	5,500	5,500	3,500	3,500	volts/mil
	275	217	217	138	138	kV/mm
Heat Seal Strength	2.5 FEP-FEP	2.5 FEP-FEP 2.0 FEP-PI	1.5 PFA-PFA 1.0 PFA-PI	2.5 FEP-FEP	2.5 FEP-FEP	lb/in
	45 FEP-FEP	45 FEP-FEP 36 FEP-PI	27 PFA-PFA 18 PFA-PI	45 FEP-FEP	45 FEP-FEP	g/mm
Continuous Service Temperature	400	400	500	500	500	°F
	205	205	260	260	260	°C

The values presented are typical values and should not be used for specification purposes. Contact your Saint-Gobain Composite Solutions representative for more information.

CONTACT SAINT-GOBAIN COMPOSITE SOLUTIONS



Americas
 SGCS Worcester
 717 Plantation Street
 Worcester, MA 01605
 Tel: (508) 852-3072
 Fax: (508) 852-3759

Europe
 SGCS Ireland
 Kilrush Business Park,
 Kilrush, Co. Clare, V15 NW27
 Ireland
 Tel: +353 65 90 80 170

Asia
 SGCS China
 Tel: +86 21 5472 1568

compositesolutions-saint-gobain.com

FLUOROWRAP® and StablEdge™ are registered trademarks.

IMPORTANT: The values presented are typical values and should not be used for specification purposes. Contact your representative for more information. It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Composite Solutions products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated by purchaser and/or user.

WARRANTY: We warranty specifications at delivery and honor claims for such breach of warranty for six (6) months after delivery. The only obligation under any applicable product warranty will be to replace 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 COMPOSITE SOLUTIONS DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

© Saint-Gobain Composite Solutions 2022 | Versiv and Saint-Gobain Composite Solutions are trademarks of Saint-Gobain.

Valid 10/2022 • Supersedes all previous versions

VS.PDS.POFLTAPES.GL.EN.V1

