

HEAT SEALABLE POLYIMIDE – FLUOROPOLYMER TAPES

NORGARD® POLYIMIDE – FLUOROPOLYMER TAPES are manufactured by **Saint-Gobain®** Performance Plastics Corporation, Tape Solutions business, and intend to 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. **Norgard** 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)

AVAILABILITY

Product	Overall Thickness	Outside	Core	Outside
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)

Tape widths available at 0.10" (2.5 mm) and wider. Tapes are available on industry standard 3" (76 mm) 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.



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

TYPICAL PROPERTIES

Property	150FH019	150PH019	Units
Thickness	1.5	1.5	mils
	0.038	0.038	mm
Tolerance (+/-)	0.25	0.30	mils
	0.006	0.008	mm
Weight	1.87	1.9	oz/yd ²
	63.40	64.42	g/m ²
Density	1,687	1,687	g/cm ³
Tensile Strength (minimum)	24	24	kpsi
	165	165	MPa
Elongation (minimum)	85	85	%
Shrinkage	<0.05	<0.05	%
Moisture Absorption	<2.0	<2.0	%
Dielectric Strength	5,500	5,500	volts/mil
	217	217	kV/mm
Heat Seal Strength	2.5 FEP-FEP 2.0 FEP-PI	1.5 PFA-PFA 1.0 PFA-PI	lb/in
	45 FEP-FEP 36 FEP-PI	27 PFA-PFA 18 PFA-PI	g/mm
Continuous Service Temperature	400	500	°F
	205	260	°C

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

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