

NORTON® FluoroWrap™ FH



FEP/Polyimide Composites

Features/Benefits

- High Temperature Electrical Insulation
- Dimensionally Stable (<0.08% Shrink)
- Cut-Through Resistant
- High Dielectric Strength (>7000 vpm)
- High Bond Strength (>2.5 lbs/in)
- Lightweight (<1.4 oz/yd²)



FluoroWrap™ FH for turn insulation on formed wound coils for high performance motors and generators



FluoroWrap™ FH wire insulation for aircraft electrical systems



FluoroWrap™ FH wire and turn insulation for downhole pumps

FluoroWrap™

Saint-Gobain Performance Plastics Introduces FluoroWrap™ FH—FEP/Polyimide Composites

Polyimide films provide excellent electrical, thermal, physical and chemical properties over a wide temperature range in a lightweight package, making them a superior choice for rigorous electrical insulation applications. FEP Coating and Lamination from the world's foremost Fluoropolymer processor allows for high temperature adhesion in demanding applications.

NORTON® FluoroWrap™ FH: Heat Sealable Polyimide Films

Product Name	Overall Thickness	Composite Construction, μm (mil)		
		NORTON® FEP	NORTON® Polyimide (TH)	NORTON® FEP
120FH616	30 (1.2)	2.5 (0.10)	25 (1.00)	2.5 (0.10)
120FH616B	32 (1.3)	3.8 (0.15)	25 (1.00)	3.8 (0.15)
200FH919	50 (2.0)	12.5 (0.50)	25 (1.00)	12.5 (0.50)
300FH929	75 (3.0)	12.5 (0.50)	50 (2.00)	12.5 (0.50)
150FH019	37.5 (1.5)		25 (1.00)	12.5 (0.50)
200FH011	50 (2.0)		25 (1.00)	25 (1.00)
250FH029	62.5 (2.5)		50 (2.00)	12.5 (0.50)
300FH021	75 (3.0)		50 (2.00)	25 (1.00)
400FH022	100 (4.0)		50 (2.00)	50 (2.00)

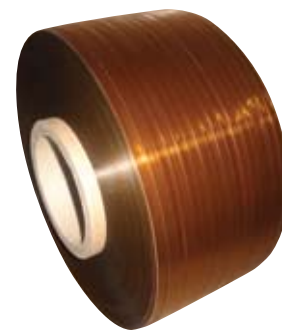
NORTON® FluoroWrap™ FH: Heat Sealable Polyimide Films Typical Properties

Property	DIRECTION	UNIT	Two-sided FEP/PI Products				Single-Sided FEP/PI Products				
			120FH616	120FH616B	200FH919	300FH929	150FH019	200FH011	250FH029	300FH021	400FH022
Thickness		mils	1.2	1.3	2.0	3.0	1.5	2.0	2.5	3.0	4.0
Thickness Tolerance	(+/-)	mils	0.08	0.08	0.10	0.15	0.25	0.30	0.30	0.30	0.40
Weight		oz./yd. ²	1.39	1.56	2.65	3.73	1.87	2.65	2.94	3.73	5.31
Yield		ft. ² /lb.	103	92	54	39	77	54	49	39	27
Tensile	(MD)	kpsi	30	27	18	24	24	18	28	24	18
	(TD)	kpsi	30	27	18	24	24	18	28	24	18
Elongation	(MD)	%	85	85	85	85	85	85	85	85	85
	(TD)	%	85	85	85	85	85	85	85	85	85
Shrinkage		%	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Moisture Absorption		%	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dielectric Strength		vpm	7000	6500	5000	5000	5500	4500	5000	4500	4000
Heat Seal Strength	FEP-FEP	lb. • in.	2.5	2.5	3.0	3.0	2.5	2.5	3.0	3.0	3.0
	FEP-PI	lb. • in.	N/A	N/A	N/A	N/A	2.0	2.0	2.5	2.5	2.5

Slitting and Packaging

Materials can be provided in flat pads, universal traverse wound, or with our StablEdge™ Technology. Width tolerances on slit materials will be held to 1/64".

The standard core will be 3" ID cardboard. Split cores are available for universal and StablEdge™ wound products with a standard length of 2-3/4". Roll cores will be of sufficient strength to prevent collapsing from handling. Roll lengths are dependent upon the width of the product and can be customized. Heat sealed splices will be used for longer roll lengths but will be kept to a minimum. Consult customer service for details.



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