FURON®
Pure Performance

FURON® PFA TUBING

SUPERIOR CHEMICAL RESISTANT TUBING

Saint-Gobain's Furon brand is well known and highly regarded in the Semiconductor industry. Furon standard grade PFA tubing serves multiple applications within a Fab and provides high-performance with excellent physical properties, superior chemical resistance and good diffusion resistance. Furon PFA tubing is also available in high purity grades for extremely critical applications.

TYPICAL MARKETS AND APPLICATIONS

Semiconductor and Electronics

- Clean, dry air line applications
- Chemical drain line applications
- Heat Exchangers

FEATURES AND BENEFITS

- Laser Etched for in Fab Traceability (where diameter and wall thickness allow)
- Excellent chemical resistance
- Retains higher mechanical strength at elevated temperatures
- High resistance to stress cracking
- Temperature resistant up to +500°F (+260°C)*

*See Graphs on page 4

ASK AN ENGINEER

SAINT-GOBAIN

Furon® PFA Tubing

NOMENCLATURE

Furon PFA Tubing part numbers are created depending upon various properties of the tube. It is based on selected options available for each property.

Example Part Number

FTI6OFPRFD-001

FT	I	6	O	F	P	R	F	D	-001
Furon Tubing	Imperial	3/8 inch	OD	0.062 in	PFA	Reel	Feet	100 Feet	Special Item #

Product	Size Unit	Size Diameter		ID/OD Definition	Wall Thickness		Material	Packaging	Length Unit	Length	Iteration # (Non-Standard/ Specialty Item)
		inch	mm		inch	mm					
Furon Tubing = FT	Imperial = I Metric = M	1/16 = 1 1/8 = 2 3/16 = 3 1/4 = 4 5/16 = 5 3/8 = 6 7/16 = 7 1/2 = 8 9/16 = 9 5/8 = 10 11/16 = 11 3/4 = 12 13/16 = 13 7/8 = 14 15/16 = 15 1 =16 1-1/4 = 20 1-1/2 = 24 2 = 32	3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = 10 11 = 11 12 = 12	ID = I OD = O	0.031 = D 0.047 = E 0.062 = F 0.075 = G 0.086 = H	0.5 = M 1.0 = N 1.5 = O 2.0 = P 2.18 = H	PFA = P HP PFA = H	Coil = C Reel = R Undefined = X Straight Length = S	Feet = F Meters = M Undefined = X	15 = A 30 = B 50 = C 100 = D 200 = E 250 = F 300 = G 400 = H 500 = I 1000 = J Straight Length Tubing 10 = 0 20 = P	This number will only appear on a part number if it is any of the following 1. Special Material 2. Specific to a Customer 3. Customer special pricing If there is no number or dash in the part number in this position, the tubing is a standard configuration

FTI6OFPRFD = Standard PFA Tubing Part Number

FTI6OFPRFD-001 = Non-Standard, Specialty, Customized PFA Tubing Part Number

SEMI REQUIREMENTS NEEDED?

Click below to see more on our High Purity PFA Tubing*

*Must be connected to internet, or go to **furon.com**

SEMI C90 & Low Iron Requirement Standard	SEMI F57
Furon 400 HP PFA UC	Furon 400 HP PFA

Furon® PFA Tubing

SPECIFICATIONS – STANDARD IMPERIAL SIZES

Part Number	Inner Diameter	Outer Diameter*	Wall Thickness Size	Min. Bend Radius	Calculated Burst Pressure at 73°F	Calculated Working Pressure at 73°F
	in	in	in	in	psi	psi
FTI2ODPRFD	1/16	1/8	1/32	1/2	1200	300
FTI3ODPRFD	1/8	3/16	1/32	1-7/64	800	200
FTI4OFPRFD		1/4	1/16	1/2	1240	310
FTI4OEPRFD	5/32		3/64	1-21/64	900	225
FTI4ODPRFD	3/16		1/32	1	560	140
FTI5OFPRFD		5/16	1/16	1-1/2	960	240
FTI5ODPRFD	1/4		1/32	1-3/4	440	110
FTI6OFPRFD		3/8	1/16	1	800	200
FTI6ODPRFD	5/16		1/32	2-1/2	400	100
FTI8OFPRFD	3/8	1/2	1/16	3-31/32	580	145
FTI8ODPRFD	7/16		1/32	4	280	70
FTI10OFPRFD	1/2	5/8	1/16	3	440	110
FTI12OFPRFD	5/8	3/4	1/16	8-59/64	400	100
FTI16OFPRFD	7/8	1	1/16	15-7/8	280	70
FTI16OFPRFD	1.1	1-1/4	0.075	27.16	276	69

*Part numbers listed here are based on OD, and length of 100 feet on a reel.
Contact Us for further diameter, sizes and tolerances.

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressure, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

SPECIFICATIONS – STANDARD METRIC SIZES

Part Number	Inner Diameter*	Outer Diameter	Wall Thickness Size	Min. Bend Radius	Calculated Burst Pressure at 23°C	Calculated Working Pressure at 23°C
	mm	mm	mm	mm	bar	bar
FTM3IMPRMD	3	4	0.5	13	39	9.75
FTM4INPRMD	4	6	1	28	54	13.5
FTM6INPRMD	6	8		13	39	9.75
FTM6IOPRMD		9	1.5	33	42	13.5
FTM8INPRMD	8	10	1	25	31	7.75
FTM9IOPRMD	9	12	1.5	38	40	9.75
FTM10INPRMD	10		1	44	26	7

*Part numbers listed here are based on ID, and length of 100 meters on a reel.
Contact Us for further diameter, sizes and tolerances.

TYPICAL PHYSICAL PROPERTIES OF FLUORINATED ETHYLENE PROPYLENE (FEP)

Property	Value
Max. Recommended Operating Temperature, °F (°C) w/ max pressure	See Graphs on following page
Minimum Recommended Operating Temperature, °F (°C)	See Graphs on following page
Color	Natural*
Flammability	UL94 V-0

* Additional colors upon request.
Unless otherwise noted, all tests were conducted at room temperature 73°F.

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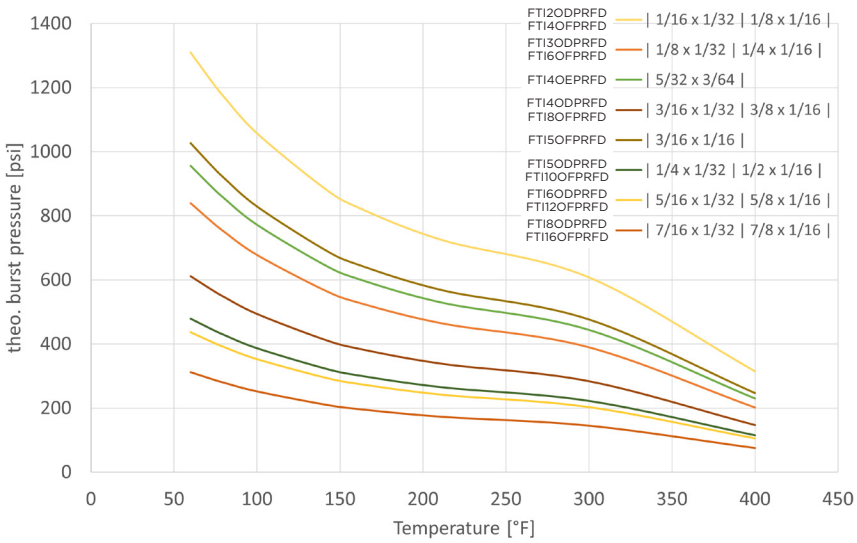
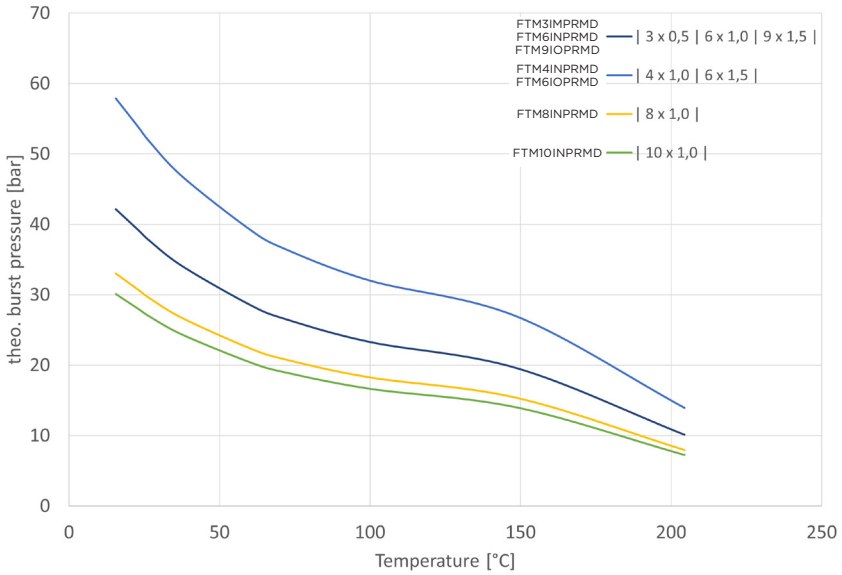
TEMPERATURE VS BURST PRESSURE

STANDARD IMPERIAL SIZES



STANDARD METRIC SIZES



For pressure curves not represented on this graph, **contact us for more detail.**

SAINT-GOBAIN

Saint-Gobain Performance Plastics

China (+86) 400 888 0198
sales.PPSCN@saint-gobain.com

Europe (+49) 2131 53359-59
sales-neuss@saint-gobain.com

India (+91) 76208 22999
pplindia.hc@saint-gobain.com

Japan (+81) 3 6256 9703
ls-japan@saint-gobain.com

Korea (+82) 2 6098 0180
LS-Korea@saint-gobain.com

Southeast Asia (+66) 38 667 800
cs.sgpplsea@saint-gobain.com

Taiwan (+886) 2 2503 4201
Taiwan.ppl@saint-gobain.com

United States (+1) 856-423-6630
DL-NA-MickletonCustomerService@saint-gobain.com

All Other Regions
www.furon.com