

# RF-FEP & PFA

## Fluoropolymer Tubing

\*\* Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Physical Properties**	FEP	PFA
Ultimate Tensile Strength, psi (ASTM D-638) 73°F 482°F	3000	4000 2000
Ultimate Elongation, % 73°F 482°F	300	300 500
Coefficient of Friction (Dynamic) Avg.	0.30	0.25
Flexural Modulus psi x 10 <sup>3</sup> (ASTM D-790) 73°F 482°F	90	90 10
Impact Strength Notched Izod (ft.lb./in.) (ASTM D-256) 73°F	no break 2.9 (-65°F)	no break 1.2 (-320°F)
Continuous Use, °F	400	500
Specific Gravity (ASTM D-792)	2.12-2.17	2.12-2.17
Dielectric Strength (ASTM D-149) Short Term Volts/Mil	2000	2000
Dielectric Constant (ASTM D-150)	2.10	2.03
Melting Point, °F	500	582
Durometer, Shore D (ASTM D-2240 @ 73°F)	56	55-57

### Tubing Burst Pressure

An approximate value for burst pressure may be calculated using the following formulas.  
(\*NOTE: This formula is only valid for values of between 0°F and 500°F).

$$P_B = S (OD/ID - 1)$$

$$S = X - YT$$

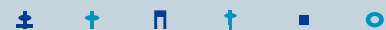
### Where:

$P_B$  = Burst pressure, psi  
 $S$  = Material strength, psi  
 $OD$  = Outer diameter of tubing, in.  
 $ID$  = Inner diameter of tubing, in.  
 $X$  = Material constant:  
 $X$  (FEP) = 1929  
 $X$  (PFA) = 2278  
 $Y$  = Material constant:  
 $Y$  (FEP) = 4.285  
 $Y$  (PFA) = 3.77  
 $T$  = Maximum temperature of the fluid in tubing, °F\*

- FEP resins meet FDA approval
- FEP and PFA resins available
- Wide range of sizes
- Chemically inert and non-contaminating
- Non-soluble, non-adhesive and non-flammable
- Temperature stability and flexibility from -275°F to 400°F
- Low dielectric content
- Low dissipation factor
- High surface and volume resistivity
- Low friction coefficient
- Resists thermal and mechanical shock
- Non-aging
- Stocked natural with custom colors available
- Custom packaging and spooling
- FEP meets ASTM D-3296

FEP & PFA are designed for a wide range of **corrosive-resistant applications covering temperature ranges from -275°F to 400°F.**

The **nonstick characteristics** of fluoropolymer resins, **combined with their low extractable levels and chemically inert nature** make FEP & PFA ideal for automotive, electronics, food and beverage, medical, pharmaceutical and chemical processing applications.



Rubberfab Mold & Gasket • Limecrest Road  
P.O. Box 626 • Andover, NJ 07821  
phone: 973-579-2959 fax: 973-579-7275

[www.rubberfab.com](http://www.rubberfab.com)

Rubberfab Mold & Gasket is a member of:



# RF-FEP & PFA

## Fluoropolymer Tubing

### FEP – Industrial Wall

ID (IN.)	OD (IN.)	WALL THICKNESS	STANDARD LENGTH (FT.)	PART NO.
1/32	1/16	.016	100 only	480101
1/16	1/8	.031	100 & 50	483102
3/16	1/4	.031	100 & 50	483105
5/32	1/4	.047	100*	484701
5/16	3/8	.031	100*	483107
7/16	1/2	.031	100*	483109
9/16	5/8	.031	100*	483111
11/16	3/4	.031	100*	483113

Product samples are available upon request.

### PFA – Industrial Wall

ID (IN.)	OD (IN.)	WALL THICKNESS	STANDARD LENGTH (FT.)	PART NO.
1/32	1/16	.016	100 only	490101
1/16	1/8	.031	100 & 50	493102
3/16	1/4	.031	100 & 50	493105
5/32	1/4	.047	100*	494701
5/16	3/8	.031	100*	493107
7/16	1/2	.031	100*	493109
9/16	5/8	.031	100*	493111
11/16	3/4	.031	100*	493113

Product samples are available upon request.

### FEP – Heavy Wall

ID (IN.)	OD (IN.)	WALL THICKNESS	STANDARD LENGTH (FT.)	PART NO.
1/8	1/4	.063	100 & 50	486302
1/4	3/8	.063	100*	486304
3/8	1/2	.063	100*	486306
1/2	5/8	.063	100*	486308
5/8	3/4	.063	100*	486310
3/4	7/8	.063	100*	486312
7/8	1	.063	100*	486313

Product samples are available upon request.

### PFA – Heavy Wall

ID (IN.)	OD (IN.)	WALL THICKNESS	STANDARD LENGTH (FT.)	PART NO.
1/8	1/4	.063	100 & 50	496302
1/4	3/8	.063	100*	496304
3/8	1/2	.063	100*	496306
1/2	5/8	.063	100*	496308
5/8	3/4	.063	100*	496310
3/4	7/8	.063	100*	496312
7/8	1	.063	100*	496313

Product samples are available upon request.



Rubberfab Mold & Gasket • Limecrest Road  
P.O. Box 626 • Andover, NJ 07821  
phone: 973-579-2959 fax: 973-579-7275

[www.rubberfab.com](http://www.rubberfab.com)

Rubberfab Mold & Gasket is a member of:

