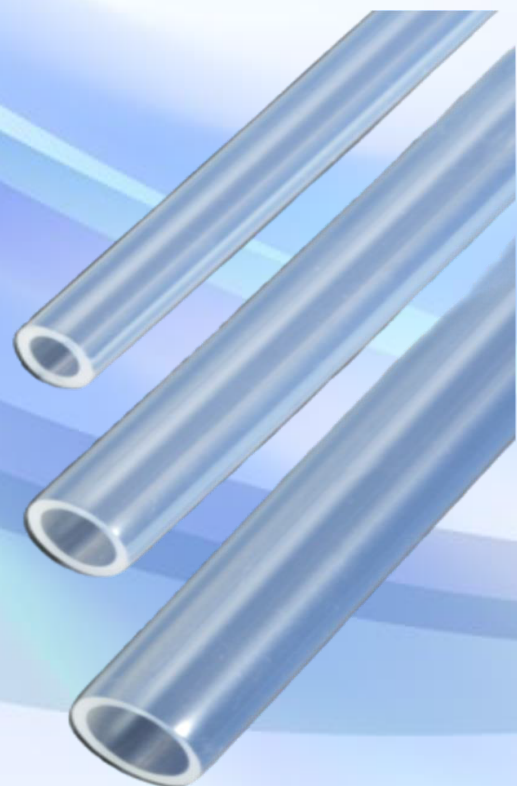


New

Fluorine resin (PFA) tubing

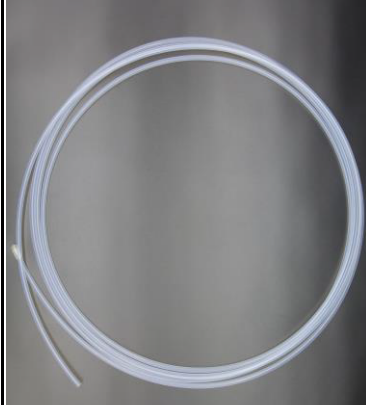


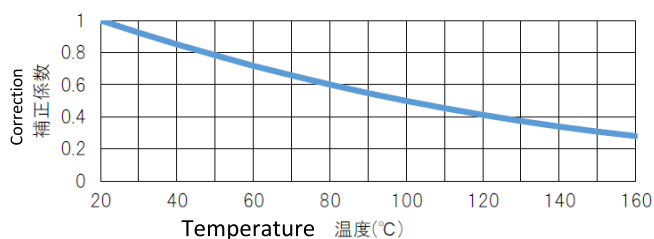
Fluorine (PFA) tubing Heat resistant 260°C type



● Fluorine resin PFA has the most excellent heat and chemical resistance among thermoplastics. ● Being inactive in a lot of chemical agents, gas, and organic, solvents, can be used in a wide range of food, chemical, medical, and semiconductor manufactures. ● Has an excellent feature from a hygiene point of view as a surface inside the tube is smooth and it is stain-resistant due to a nonviscous character.

※The pressure values in the table are at 20°C.

TFN	Model	O.D.×I.D. (mm)	Reel (m)	Burst Pressure (MPa)	Max. Working Pressure (MPa)	Tolerance (mm)	Min. Turning Radius (mm)	Weight (kg/m)
	TFN-4-10	4×2	10	10.0	2.5	±0.1	30	0.02
	TFN-4-20		20					
	TFN-4-100		100					
	TFN-6-10	6×4	10	7.0	1.7	±0.1	50	0.03
	TFN-6-20		20					
	TFN-6-100		100					
	TFN-8-10	8×6	10	4.0	1.0	±0.1	80	0.05
	TFN-8-20		20					
	TFN-8-50		50					
	TFN-10-10	10×8	10	3.5	0.8	±0.12	120	0.06
	TFN-10-20		20					
	TFN-10-50		50					
	TFN-12-10	12×10	10	3.0	0.7	±0.15	200	0.08
	TFN-12-20		20					
	TFN-12-50		50					



【Pressure resistance of Fluorine tubing】

Tubing has different pressure resistance performance depending on their size. Please calculate the max. working pressure by the equation below and left table.

Max. working pressure (MPa)=20°C burst pressure (MPa)×correction × 1/4

(Example)

The max. working pressure of TFN-8 used in a 100°C environment is calculated as follows.

Max. working pressure = burst pressure 4MPa × correction 0.5 × 1/4 = 0.5MPa

The max. working pressure is 0.5 Mpa.

Chemical resistant data

Fluorine resin PFA is chemically stable and resistant to almost all chemicals. It maintains its characteristics from low to high temperature, and has continuous resistance temperature of 260°C, which is one of the top class among thermoplastic plastics. The weather resistance is almost perfect, and the characteristics change little even when exposed outdoors for a long time.

Classification	Chemical name	Evaluation	Classification	Chemical name	Evaluation
Inorganic acid	Hydrochloric acid 38% 20°C	A	Organic acid	Formic acid	A
	Sulfuric acid 40% 20°C	A		Acetic acid	A
	Nitric acid 30% 20°C	A		Oxalic acid	A
Inorganic base	Sodium hydroxide 30% 60°C	B	Alcohols	Methanol	A
	Potassium hydroxide 30% 60°C	A		Ethanol	A
	Ammonia	B		Isopropyl alcohol	A
Inorganic salts	Ammonium sulfate	A	Aromatic hydrocarbon	Benzene	A
	Ferric chloride	A		Toluene	A
	Ammonium phosphate	A		Xylene	A
Ester・Ether Ketones	Ethyl acetate	A	Halogen hydrocarbon	Carbon tetrachloride	A
	Butyl acetate	A		Methylene chloride	B
	Diethyl ether	A		Freon 113	B
	Acetone	A			

Recommended Fittings

SUS316
Stainless Fitting



SUS316 stainless fitting catalogue
(Page A-29 in general catalogue)



In order to use our products safely, please be sure to read the general catalogue 'Safety Precautions'.



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