

NAFLON™ Tube (PTFE/PFA/FEP)

NAFLON™ Tubes are pure fluoropolymer tubes, and contain no additives such as fillers or plasticizers. Each of the PTFE, PFA, and FEP tubes has exceptional chemical-resistant, heat-resistant, and weather-resistant features.

Features

- Exceptional anti-adhesive properties prevent most dirtying and scaling.
- Almost no loss of electrical properties under high temperature, high humidity, and high frequency conditions, making these tubes excellent electrical insulators.
- Excellent Weather resistance.

Applications

- For highly pure chemicals and pure water
- Protection of wiring

Specifications

- Maximum usage temperature : 260°C (PTFE/PFA), 200°C (FEP)

* Please refer to the below "Maximum Usage Pressure" for the maximum usage pressure.



Type

- PTFE tubes can be made in a variety of colors.
- ETFE tubes are available upon request.

* There may be slight difference of color tone for PTFE tubes depending on production lot. (There is no quality issue.)

* Please ask us for fluoropolymer tubes other than PTFE, PFA or FEP.

NAFLON™ Tube Room-Temperature Destructive Pressure and Minimum Bend Radius

PFA/FEP Tube

Inner diameter (mm)	Outside diameter (mm)	Room-Temperature Destructive Pressure (Mpa)	Minimum Bend Radius (mm)
2	4	8.8	15
4	6	5.7	25
6	8	4.1	50
8	10	3.2	80
10	12	2.7	130
20	23	2.0	310
1.59	3.17	8.8	15
3.96	6.35	6.5	20
4.35	6.35	5.3	30
6.35	9.52	5.7	40
7.52	9.52	3.4	70
9.52	12.7	4.1	75
10.7	12.7	2.5	150
15.88	19.05	2.6	200
22.22	25.4	2.0	370

PTFE Tube

Inner diameter (mm)	Outside diameter (mm)	Room-Temperature Destructive Pressure (Mpa)	Minimum Bend Radius (mm)
2	3	5.9	10
3	4	3.9	15
4	6	5.9	25
6	8	3.9	45
8	10	2.9	70
10	12	2.4	105
16	19	2.2	120
1.59	3.17	11.7	5
3.17	6.35	11.8	15
4.35	6.35	5.4	30
6.35	9.52	6.0	35
7.52	9.52	3.1	65
9.52	12.7	3.9	65
10.7	12.7	2.1	115
15.88	19.05	2.3	120

* The above values are calculated based on actually measured values and partly calculated values, so not the specification values.

* The minimum bend radius shows 1.2 times larger values than actually measured (calculated) values.

Maximum Usage pressure

■ Please only use our tubes at pressures below $P_{U,T}$ as determined by the following formula:

$$P_{U,T} = S \times a \times P_{R,T}$$

- Tubes room temperature destructive pressure
- Destructive pressure decline coefficient
*The destructive pressure decline coefficient by material can be obtained from the table to the right.
- Safety factor (1/3~1/5)
*A safety factor of 1/3~1/5 is obtained according to the fluid type (gas or liquid), danger level and the existence of impact pressure levels.
- Maximum usage pressure at a given temperature.

NAFLON™ PFA/FEP/PTFE Tube

