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## PTFE Tubing ( Polytetrafluoroethylene)

### ■ Property

- Best surface lubricity
- Biocompatibility
- Operating Temp. -328°F ~+500°F
- Excellent dielectric insulation performance
- Excellent chemical resistance
- Excellent non-stick
- Excellent weatherability flame resistance

### ■ Type

- **ST type:** standard tubing, usually milky
- **TL type:** good toughness, usually translucent
- **TP type:** good toughness and rigidity, usually transparent

### ■ Size

- **ID:** 0.002~1.0in
- **THK:** 0.002~0.2in

**Micro-bore tube:** ID=0.05~0.5mm, custom size available.

**AWG thick-walled tube:** Size range: 5#~24#,

**AWG tube:** Size range: 0#~32#, inch scores,

**Inch tube:** Industrial specification, heavy wall tube,

The size of ID and THK according to manufacturing and the actual demands of customers.  
In addition to customer requirements, size tolerance and performance are executed according to standard QB/T4877-2015.



## PTFE,FEP,PFA Extruded Metric Tube(thickness=0.5mm)/mm

Ordering size (OD/ID)	OD	Tolerance (+/-)	Wall thickness
1.50/0.50	1.50	0.05	0.50+/-0.05
2.00/1.00	2.00	0.05	0.50+/-0.05
2.50/1.50	2.50	0.10	0.50+/-0.05
3.00/2.00	3.00	0.10	0.50+/-0.05
3.50/2.50	3.50	0.10	0.50+/-0.05
4.00/3.00	4.00	0.10	0.50+/-0.05
4.50/3.50	4.50	0.15	0.50+/-0.05
5.00/4.00	5.00	0.15	0.50+/-0.05
5.50/4.50	5.50	0.15	0.50+/-0.05
6.00/5.00	6.00	0.15	0.50+/-0.05
6.50/5.50	6.50	0.20	0.50+/-0.05
7.00/6.00	7.00	0.20	0.50+/-0.05
7.50/6.50	7.50	0.20	0.50+/-0.05
8.00/7.00	8.00	0.20	0.50+/-0.05
8.50/7.50	8.50	0.20	0.50+/-0.05
9.00/8.00	9.00	0.20	0.50+/-0.05
9.50/8.50	9.50	0.30	0.50+/-0.05
10.0/9.00	10.00	0.30	0.50+/-0.05
11.0/10.0	11.00	0.30	0.50+/-0.05
12.0/11.0	12.00	0.30	0.50+/-0.05
13.0/12.0	13.00	0.30	0.50+/-0.05
14.0/13.0	14.00	0.30	0.50+/-0.05

Natural unless otherwise specified, other colors available on request.



## PTFE,FEP,PFA Extruded Metric Tube(thickness=1.0mm)/mm

Ordering size (OD/ID)	OD	Tolerance (+/-)	Wall thickness
3.00/1.00	3.00	0.10	1.00+/-0.10
3.50/1.50	3.50	0.10	1.00+/-0.10
4.00/2.00	4.00	0.10	1.00+/-0.10
4.50/2.50	4.50	0.15	1.00+/-0.10
5.00/3.00	5.00	0.15	1.00+/-0.10
5.50/3.50	5.50	0.15	1.00+/-0.10
6.00/4.00	6.00	0.15	1.00+/-0.10
6.50/4.50	6.50	0.20	1.00+/-0.10
7.00/5.00	7.00	0.20	1.00+/-0.10
7.50/5.50	7.50	0.20	1.00+/-0.10
8.00/6.00	8.00	0.20	1.00+/-0.10
8.50/6.50	8.50	0.20	1.00+/-0.10
9.00/7.00	9.00	0.20	1.00+/-0.10
9.50/7.50	9.00	0.20	1.00+/-0.10
10.0/8.00	10.00	0.20	1.00+/-0.10
10.5/8.50	10.50	0.30	1.00+/-0.10
11.0/9.00	11.00	0.30	1.00+/-0.10
11.5/9.50	11.50	0.30	1.00+/-0.10
12.0/10.0	12.00	0.30	1.00+/-0.10
12.5/10.5	12.50	0.30	1.00+/-0.10
13.0/11.0	13.00	0.30	1.00+/-0.10
14.0/12.0	14.00	0.30	1.00+/-0.10
15.0/13.0	15.00	0.30	1.00+/-0.10
16.0/14.0	16.00	0.30	1.00+/-0.10
17.0/15.0	17.00	0.40	1.00+/-0.10
18.0/16.0	18.00	0.40	1.00+/-0.10
20.0/18.0	20.00	0.40	1.00+/-0.10
21.0/19.0	21.00	0.40	1.00+/-0.10
21.5/19.5	21.50	0.40	1.00+/-0.10
22.0/20.0	22.00	0.40	1.00+/-0.10
23.0/21.0	23.00	0.50	1.00+/-0.10
24.0/22.0	24.00	0.50	1.00+/-0.10
24.5/22.5	24.50	0.50	1.00+/-0.10
25.0/23.0	25.00	0.50	1.00+/-0.10
25.5/23.5	25.50	0.50	1.00+/-0.10

Natural unless otherwise specified, other colors available on request.



## PTFE,FEP,PFA Extruded Metric Tube(thickness=1.5mm)/mm

Ordering size (OD/ID)	OD	Tolerance (+/-)	Wall thickness
4.00/1.00	4.00	0.10	1.50+/-0.15
4.50/1.50	4.50	0.10	1.50+/-0.15
5.00/2.00	5.00	0.15	1.50+/-0.15
6.00/3.00	6.00	0.15	1.50+/-0.15
7.00/4.00	7.00	0.20	1.50+/-0.15
8.00/5.00	8.00	0.20	1.50+/-0.15
9.00/6.00	9.00	0.20	1.50+/-0.15
10.0/7.00	10.00	0.20	1.50+/-0.15
11.0/8.00	11.00	0.30	1.50+/-0.15
12.0/9.00	12.00	0.30	1.50+/-0.15
13.0/10.0	13.00	0.30	1.50+/-0.15
14.0/11.0	14.00	0.30	1.50+/-0.15
15.0/12.0	15.00	0.30	1.50+/-0.15
16.0/13.0	16.00	0.30	1.50+/-0.15
17.0/14.0	17.00	0.30	1.50+/-0.15
18.0/15.0	18.00	0.40	1.50+/-0.15
19.0/16.0	19.00	0.40	1.50+/-0.15
21.0/18.0	21.00	0.40	1.50+/-0.15
22.0/19.0	22.00	0.40	1.50+/-0.15
23.0/20.0	23.00	0.50	1.50+/-0.15
24.0/21.0	24.00	0.50	1.50+/-0.15
25.0/22.0	25.00	0.50	1.50+/-0.15

Natural unless otherwise specified, other colors available on request.



**PTFE,FEP,PFA Extruded Metric Tube(thickness=2.0mm)/mm**

Ordering size (OD/ID)	OD	Tolerance(+/-)	Wall thickness
6.00/2.00	6.00	0.15	2.00+/-0.15
7.00/3.00	7.00	0.20	2.00+/-0.15
8.00/4.00	8.00	0.20	2.00+/-0.15
9.00/5.00	9.00	0.20	2.00+/-0.15
10.0/6.00	10.00	0.20	2.00+/-0.15
11.0/7.00	11.00	0.20	2.00+/-0.15
12.0/8.00	12.00	0.20	2.00+/-0.15
14.0/10.0	14.00	0.30	2.00+/-0.15
16.0/12.0	16.00	0.30	2.00+/-0.15
18.0/14.0	18.00	0.40	2.00+/-0.15
20.0/16.0	20.00	0.40	2.00+/-0.15
22.0/18.0	22.00	0.50	2.00+/-0.15
24.0/20.0	24.00	0.50	2.00+/-0.15

**PTFE,FEP,PFA Extruded Inch Tube/mm**

**Industrial Specification Tube**

Frac.Sizes (by ID)	ID		OD		Nominal Wall	
	inch frac.	metric sizes	inch frac.	metric sizes	inch frac.	metric sizes
1/32"	1/32"	0.79±0.07	1/16"	1.60±0.07	1/64"	0.39
1/16"	1/16"	1.60±0.1	1/8"	3.18±0.1	1/32"	0.79
3/32"	3/32"	2.39±0.1	5/32"	3.97±0.1	1/32"	0.79
1/8"	1/8"	3.18±0.13	3/16"	4.76±0.13	1/32"	0.79
3/16"	3/16"	4.76±0.13	1/4"	6.35±0.13	1/32"	0.79
1/4"	1/4"	6.35±0.15	5/16"	7.94±0.15	1/32"	0.79
5/16"	5/16"	7.94±0.15	3/8"	9.53±0.15	1/32"	0.79
3/8"	3/8"	9.53±0.20	7/16"	11.11±0.20	1/32"	0.79
7/16"	7/16"	11.11±0.20	1/2"	12.7±0.20	1/32"	0.79
1/2"	1/2"	12.7±0.20	9/16"	14.3±0.20	1/32"	0.79
9/16"	9/16"	14.3±0.25	5/8"	15.88±0.25	1/32"	0.79
5/8"	5/8"	15.88±0.25	11/16"	17.46±0.25	1/32"	0.79
11/16"	11/16"	17.46±0.25	3/4"	19.05±0.25	0.032"	0.81
3/4"	3/4"	19.05±0.3	0.83"	21.08±0.3	0.040"	1.02
7/8"	7/8"	22.23±0.3	0.965"	24.51±0.3	0.045"	1.14
1"	1"	25.4±0.4	1.1"	27.94±0.4	0.05"	1.27



**Heavy Wall Tube**

Frac.Sizes (by ID)	ID		OD		Nominal Wall	
	inch frac.	metric sizes	inch frac.	metric sizes	inch frac.	metric sizes
1/4"	1/4"	6.35±0.13	1/8"	3.18±0.13	1/16"	1.59
1/4"	1/4"	6.35±0.13	5/32"	3.97±0.13	3/64"	1.19
5/16"	5/16"	7.94±0.13	3/16"	4.76±0.13	1/16"	1.59
3/8"	3/8"	9.53±0.15	1/4"	6.35±0.15	1/16"	1.59
7/16"	7/16"	11.11±0.2	5/16"	7.94±0.20	1/16"	1.59
1/2"	1/2"	12.7±0.20	3/8"	9.53±0.20	1/16"	1.59
9/16"	9/16"	14.29±0.2	7/16"	11.11±0.2	1/16"	1.59
5/8"	5/8"	15.88±0.25	1/2"	12.7±0.25	1/16"	1.59
11/16"	11/16"	17.46±0.25	9/16"	14.29±0.25	1/16"	1.59
3/4"	3/4"	19.05±0.25	5/8"	15.88±0.25	1/16"	1.59
13/16"	13/16"	20.63±0.3	11/16"	17.46±0.3	1/16"	1.59
7/8"	7/8"	22.23±0.3	3/4"	19.05±0.3	1/16"	1.59
15/16"	15/16"	23.81±0.3	13/16"	20.63±0.3	1/16"	1.59
1"	1"	25.40±0.3	7/8"	22.23±0.3	1/16"	1.59

**PTFE,FEP,PFA Heavy Wall Tube(AWG Size)/mm**

AWG Size	Inside Diameter			OD	Thickness
	Min.	Nom.	Max.		
24	0.51	0.56	0.66	1.38	0.41±0.07
23	0.61	0.68	0.76	1.5	0.41±0.07
22	0.64	0.72	0.81	1.54	0.41±0.07
21	0.76	0.84	0.91	1.66	0.41±0.07
20	0.81	0.91	1.02	1.83	0.46±0.07
19	0.91	1.02	1.12	2.04	0.51±0.1
18	1.02	1.13	1.24	2.15	0.51±0.1
17	1.14	1.26	1.37	2.28	0.51±0.1
16	1.29	1.42	1.55	2.44	0.51±0.1
15	1.45	1.57	1.7	2.59	0.51±0.1
14	1.63	1.75	1.88	2.77	0.51±0.1
13	1.83	1.96	2.08	2.98	0.51±0.1
12	2.06	2.18	2.31	3.2	0.51±0.1
11	2.31	2.44	2.57	3.46	0.51±0.1
10	2.59	2.72	2.84	4	0.64±0.1
9	2.9	3.02	3.15	4.3	0.64±0.1
8	3.28	3.43	3.58	4.95	0.76±0.1
7	3.66	3.84	4.01	5.36	0.76±0.1
6	4.11	4.32	4.52	5.84	0.76±0.1
5	4.62	4.83	5.03	6.45	0.81±0.1



## PTFE,FEP,PFA Extruded Tube(AWG Size)/mm

AWG	Inside Diameter			Standard Wall		Thin Wall		Lightweight Wall	
	Min.	Nom.	Max.	OD	Thickness	OD	Thickness	OD	Thickness
32	0.2	0.25	0.3	0.51	0.13±0.05	0.51	0.13±0.05	/	/
30	0.25	0.3	0.38	0.76	0.23±0.05	0.76	0.23±0.05	0.6	0.15±0.05
28	0.33	0.38	0.46	0.84	0.23±0.05	0.84	0.23±0.05	0.68	0.15±0.05
26	0.41	0.46	0.53	0.92	0.23±0.05	0.92	0.23±0.05	0.76	0.15±0.05
24	0.51	0.56	0.66	1.16	0.3±0.05	1.06	0.25±0.07	0.86	0.15±0.05
23	0.58	0.66	0.74	1.26	0.3±0.05	1.16	0.25±0.07	0.96	0.15±0.05
22	0.66	0.71	0.81	1.31	0.3±0.05	1.21	0.25±0.07	1.01	0.15±0.05
21	0.74	0.81	0.89	1.41	0.3±0.05	1.31	0.25±0.07	1.11	0.15±0.05
20	0.81	0.86	0.97	1.68	0.41±0.07	1.46	0.3±0.07	1.16	0.15±0.05
19	0.91	0.96	1.07	1.78	0.41±0.07	1.56	0.3±0.07	1.26	0.15±0.05
18	1.02	1.07	1.17	1.89	0.41±0.07	1.67	0.3±0.07	1.37	0.15±0.05
17	1.14	1.19	1.32	2.01	0.41±0.07	1.79	0.3±0.07	1.49	0.15±0.05
16	1.29	1.35	1.47	2.17	0.41±0.07	1.95	0.3±0.07	1.65	0.15±0.05
15	1.45	1.5	1.65	2.32	0.41±0.07	2.1	0.3±0.07	1.8	0.15±0.05
14	1.63	1.68	1.83	2.5	0.41±0.07	2.28	0.3±0.07	2.08	0.2±0.05
13	1.83	1.93	2.06	2.75	0.41±0.07	2.53	0.3±0.07	2.33	0.2±0.05
12	2.06	2.16	2.31	2.98	0.41±0.07	2.76	0.3±0.07	2.56	0.2±0.05
11	2.31	2.41	2.57	3.23	0.41±0.07	3.01	0.3±0.07	2.81	0.2±0.05
10	2.59	2.69	2.84	3.51	0.41±0.07	3.29	0.3±0.07	3.09	0.2±0.05
9	2.9	3	3.15	4.02	0.51±0.1	3.76	0.38±0.07	3.4	0.2±0.05
8	3.28	3.38	3.53	4.4	0.51±0.1	4.14	0.38±0.07	3.78	0.2±0.05
7	3.66	3.76	3.94	4.78	0.51±0.1	4.52	0.38±0.07	4.16	0.2±0.05
6	4.11	4.22	4.42	5.24	0.51±0.1	4.98	0.38±0.07	4.72	0.25±0.07
5	4.62	4.72	4.95	5.74	0.51±0.1	5.48	0.38±0.07	5.22	0.25±0.07
4	5.18	5.28	5.54	6.3	0.51±0.1	6.04	0.38±0.07	5.78	0.25±0.07
3	5.82	5.94	6.2	6.96	0.51±0.1	6.7	0.38±0.07	6.44	0.25±0.07
2	6.55	6.68	6.93	7.7	0.51±0.1	7.44	0.38±0.07	7.18	0.25±0.07
1	7.34	7.47	7.75	8.49	0.51±0.1	8.23	0.38±0.07	7.97	0.25±0.07
0	8.26	8.38	8.69	9.4	0.51±0.1	9.14	0.38±0.07	8.98	0.3±0.07
1/8"	3.05	3.18	3.3	4.2	0.51±0.1	3.94	0.38±0.07	/	/
1/8"	3.18	3.3	3.43	/	/	/	/	3.7	0.20±0.05
3/16"	4.78	4.88	5.03	5.9	0.51±0.1	5.64	0.38±0.07	5.38	0.25±0.06
1/4"	6.35	6.48	6.6	7.5	0.51±0.1	7.24	0.38±0.07	6.98	0.25±0.06
5/16"	7.95	8.15	8.43	9.17	0.51±0.1	8.91	0.38±0.07	8.75	0.30±0.07
3/8"	9.53	9.83	10.01	11.11	0.64±0.13	10.59	0.38±0.07	10.59	0.38±0.07
7/16"	11.13	11.46	11.63	12.74	0.64±0.13	12.38	0.46±0.1	12.38	0.46±0.1
1/2"	12.7	13.08	13.21	14.36	0.64±0.13	14	0.46±0.1	14	0.46±0.1
5/8"	15.88	16.33	16.51	17.61	0.64±0.13	17.35	0.51±0.1	17.35	0.51±0.1



3/4"	19.05	19.61	19.69	21.13	0.76±0.15	20.89	0.64±0.13	20.63	0.51±0.1
7/8"	22.23	22.91	23.55	24.69	0.89±0.15	/	/	/	/
1"	24.4	26.16	26.92	27.94	0.89±0.15	/	/	/	/

PTFE Tube meets the specification of ASTM D 3295 wher applicable.

Natural unless otherwise specified, other colors available on request.

