

DSE . . . Teflon / PTFE

CUSTOM Tubing Sizes / Specs / 2016

PTFE TUBE (Clear)					
ID(mm)	OD(mm)	ID(mm)	OD(mm)	ID(mm)	OD(mm)
0.5*1.5		5.5*7.5		10.0*11.0	
1.0*2.0		6.0*7.0		10.0*11.5	
1.0*3.0		6.0*7.5		10.0*12.0	
1.5*2.5		6.0*8.0		10.0*12.5	
1/16*2.52		6.0*9.0		11.0*13.5	
2.0*3.0		6.0*10.0		11.0*14.0	
2.0*4.0		1/4'*5/16'		7/16'*1/2'	
2.0*4.5		6.5*7.5		11.4*12.9	
2.2*4.4		6.5*8.0		12.0*13.0	
3/32'*5/32'		6.5*8.5		12.0*14.0	
2.5*3.5		7.5*8.0		12.0*15.0	
2.5*4.5		7.0*8.5		1/2'*9/16'	
3.0*4.0		7.0*9.0		13.0*14.0	
3.0*4.5		7.0*10.0		13.0*15.0	
3.0*5.0		7.5*8.5		13.0*16.0	
3.0*6.0		7.5*9.0		14.0*15.0	
1/8'*3/16'		7.5*9.5		14.0*16.0	
3.5*4.5		5/16'*3/8'		15.0*17.0	
3.5*5.5		8.0*9.0		15.0*18.0	
4.0*5.0		8.0*10.0		16.0*18.0	
4.0*5.5		8.0*11.0		16.0*19.0	
4.0*6.0		8.5*9.5		17.0*19.0	
4.0*7.0		8.5*10.5		17.0*20.0	
4.0*8.0		9.0*10.0		18.0*20.0	
3/16'*1/4'		9.0*10.5		18.0*21.0	
5.0*6.0		9.0*11.0		19.0*21.0	
5.0*6.5		9.0*12.0		19.0*22.0	
5.0*7.0		9.5*10.5		20.0*22.0	
5.0*8.0		9.5*10.5		20.0*23.0	
5.0*9.0		9.5*11.5		21.0*23.0	
5.5*6.5		3/8'*7/6		22.0*23.0	
28.0*30.0		25.0*28.0		22.0*24.0	

AWG PTFE TUBE (clear)

spec	ID			OD			Package (meter)
	AWG	Min	Normal	Max	S-TYPE	T-TYPE	
30	0.25	0.30	0.38	0.76	0.76	0.60	305
28	0.33	0.38	0.46	0.84	0.84	0.68	305
26	0.41	0.46	0.53	0.92	0.92	0.76	305
24	0.51	0.56	0.66	1.16	1.06	0.86	305
23	0.58	0.66	0.74	1.26	1.16	0.96	305
22	0.66	0.71	0.81	1.31	1.21	1.01	305
21	0.74	0.81	0.89	1.41	1.31	1.11	305
20	0.81	0.86	0.97	1.66	1.46	1.16	305
19	0.91	0.96	1.07	1.76	1.56	1.26	305
18	1.01	1.07	1.17	1.87	1.67	1.37	305
17	1.14	1.19	1.32	1.99	1.79	1.49	305
16	1.29	1.34	1.47	2.14	1.94	1.64	305
15	1.45	1.50	1.65	2.30	2.10	1.80	153
14	1.62	1.68	1.83	2.48	2.28	2.08	153
13	1.83	1.93	2.05	2.73	2.53	2.33	153
12	2.05	2.16	2.31	2.96	2.77	2.56	153
11	2.31	2.41	2.57	3.21	3.01	2.81	153
10	2.59	2.69	2.84	3.49	3.29	3.09	153
9	2.90	3.00	3.15	4.00	3.76	3.40	100
8	3.28	3.38	3.53	4.38	4.14	3.78	100
7	3.65	3.76	3.94	4.76	4.52	4.16	100
6	4.11	4.22	4.41	5.22	4.98	4.72	100
5	4.62	4.72	4.95	5.72	5.48	5.22	100
4	5.18	5.28	5.53	6.28	6.04	5.78	100
3	5.81	5.94	6.20	6.94	6.70	6.44	100
2	6.55	6.68	6.93	7.68	7.44	7.18	100
1	7.34	7.46	7.75	8.46	8.22	7.96	100
0	8.26	8.38	8.69	9.38	9.14	8.80	100

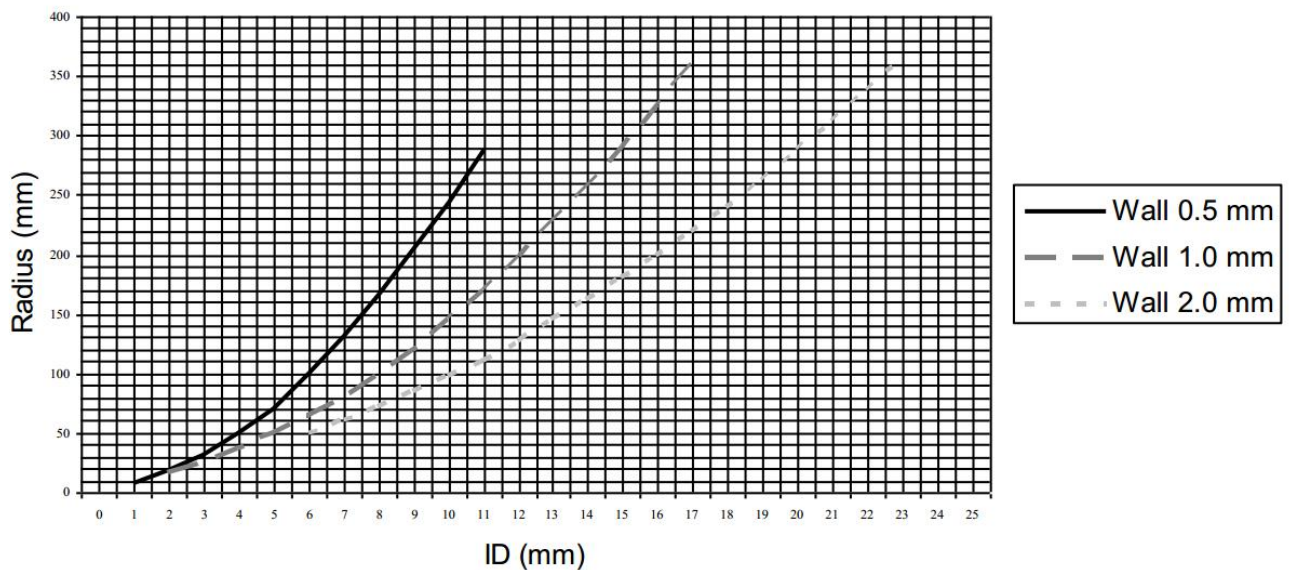
Suniu tube is specialist in custom made sizes, we can produce basically any size. Suniu tube produces tubing from miniature sizes, with an inside diameter from below 0.10 mm, to industrial sizes. Wall sizes are available from below 0.10 mm up to 5.00 mm. Standard sizes are listed below.

Standard tolerances: PTFE tubing

ID mm	Tolerance mm	Wall mm	Tolerance mm
0.10-1.00	+/-0.05	0.10-0.19	+/-0.03
1.01-2.00	+/-0.08	0.20-0.29	+/-0.05
2.01-4.00	+/-0.10	0.30-0.49	+/-0.07
4.01-8.00	+/-0.15	0.50-0.69	+/-0.10
8.01-12.50	+/-0.15	0.70-0.79	+/-0.12
12.51-25.00	+/-0.20	0.80-0.99	+/-0.15
		1.00-1.24	+/-0.20
		1.25-1.50	+/-0.25
		1.51-3.00	+/-0.30
		>3.00	+/-0.50

Bending Radius: PTFE tubing

Bending radius for PTFE at 25° C



Data sheet: PTFE Tubing

Key properties of PTFE tubing

- PTFE has the lowest coefficient of friction of all polymers.
- Useful in high temperature applications.
- Very good chemical resistance to all common solvents, acids and bases.
- Excellent dielectric insulation properties.
- The working temperature of PTFE is extremely broad,, ranging from 260oC (500oF) to -270oC (-454oF).

General	Continuous service temperature	Maximum			
	Chemical resistance				
	Specific gravity	D 792			
Electrical	Dielectric constant	D 150 at 10 ³ Hz			
		D 150 at 10 ⁶ Hz			
	Dielectric dissipation factor	D 150 at 10 ³ Hz			
		D 150 at 10 ⁶ Hz			
	Dielectric strength (short term) 10 mils film	D 150 at 10 ³ Hz			
Volume resistivity	D 150 at 10 ⁶ Hz				
	D 150 at 10 ³ Hz				
Enviromental	Water absorption	D 570	%	< 0.01	
	Weather resistance	-	-	Excellent	
	Oxygene index	D 2863	%	>95	
	Flammability	UL 94	-	V-0	
Mechanical	Tensile strength	D 1708, D 638	psi	3 500	
	Elongation	D 1708, D 638	%	300	
	Compressive strength	D 695	psi	3 500	
	Impact strength	D 256 at +23°C	Ft-Lb/in	3.5	
	Flexural Modulus	D 790 at +23°C	psi	90 000	
	Tensile Modulus	D 638	psi	80 000	
	Hardness	D 2240	-	D-60	
Thermal	Melting point		° C	327	
			° F	620	
	Thermal conductivity	C-177	BTU/hr/ft 2 /°F. in	1.7	
	Deflection temperature 66 psi 264 psi	D 648		° C	55 122
				° F	252 131

Item	(Test Method)	(Specifications)
(Specific Gravity)	ASTM D792	2.16
(Rated Voltage)	UL-224	600V (S) 300V (T) 150V (L)
UL Rated Temperature	--	-80~200
Tensile Strength	ASTM D638	24.5
Elongation Ratio	ASTM D638	350
(Flexural Modulus)	ASTM D790	490
(Impact Strength)	ASTM D256+23°C -54°C J/m	-No Break- 107
(Hardness)	ASTM D2240	55
(Coefficient Of Dynamic Friction)	--	0.1
(Melting Point)	--	327
(Service Temperature 20000h With 50% Retention Of Ultimate Elongation)	--	260
(Inflammability)	UL-224	VW-1
(Dielectric Constant At 103-106Hz)	ASTM D150	2.1
Dielectric Strength	UL-224	YES
(Dissipation Factor At 106Hz)	ASTM D150	0.0002
(Arc Resistance)	ASTM D495 (Stainless Steel Electrodes)	>300
(Volume Resistivity)	ASTM D257	>10 ¹⁸
(Weather Resistance)	"Weather-O-Meter" (2000h)	No cracking
(Solvent Resistance)	ASTM D543	Excellent
(Chemical Resistance)	ASTM D543	Excellent

Dimensions: ptfе tube produces metric, imperial and AWG sizes. Special dimensions can be made upon request. Random production length is standard but fix length and cut pieces can be supplied upon request. Please contact