PTFE(Teflon), PFA, FEP Tubing BULK

most sizes to Import Orders >>100metres (ASK !)

Cut to Length IF in stock Melbourne (10 metres MIN)

ETFE (*some* nuclear Apps OK) > to Special order eg 1/16"OD, 1.0, 0.75mm ID to 500metre also **PEEK Tubing**
see VICI(Jour)
see also >
Chromatography Tubing Catalog

PTFE Tube

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	L-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.

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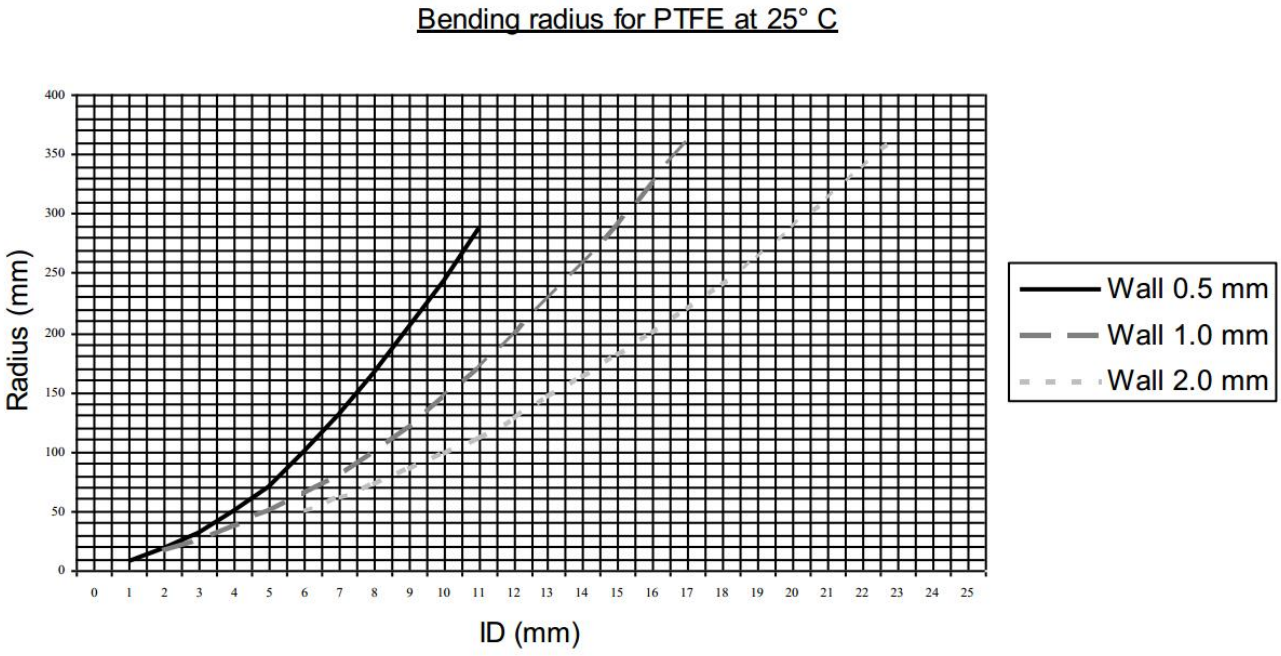
Standard tolerances: PTFE tubing

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



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Data sheet: PTFE Tubing

Key properties of PTFE tubing

- PTFE has the lowest coefficient of friction of allpolymers.
- 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 10^6Hz		
	Dielectric strength (short term) 10 mils film	D 150 at 10^3 Hz		
	Volume resistivity	D 150 at 106Hz		
		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
	Deflection temperature 66 psi 264 psi	D 648	° F	252 131

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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℃ -54℃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	>1018
(Weather Resistance)	“Weather-O-Meter” (2000h)	No cracking
(Solvent Resistance)	ASTM D543	Excellent
(Chemical Resistance)	ASTM D543	Excellent

Dimensions:ptfe 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

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PFA tube

For applications requiring more clarity, flexibility and a higher continuous working temperature, PFA is a good choice.

PFA tubing can be delivered in smooth or convoluted design (spiral or parallel), in metric, inch and AWG sizes.

Delivery possible on straight lengths, cut lengths, coils or spools or striped/marked.

Key properties of PFA
- Less creep (less than PTFE)
- Transparent
- Melt processable
- Higher continuous working temperature than FEP
- Longer continuous lengths than PTFE (due to melt processability)
- Better performance in high pressure/temperature application than PTFE
- Working temperature from -200°C to +260°C

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	260
	Chemical resistance		-	Excellent
	Specifc gravity	D 792	g/cm³	2.15
Electrical	Dielectric constant	D 150 at 103 Hz	-	2.04
		D 150 at 106 Hz	-	2.04
	Dielectric dissipation factor	D 150 at 103 Hz	-	0.0002
		D 150 at 106 Hz	-	0.0003
	Dielectric strength	D 149	kV/mm	55
	Volume resistivity	D 257	Ohm·cm	>1018
Mechanical	Tensile strength	D 1708, D 638	Mpa	30
	Elongation	D 1708, D 638	%	300
	Compressive strength	D 695	Mpa	15
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	690
	Tensile Modulus	D 638	Mpa	270
	Hardness	D 2240	-	60-65
Thermal	Melting (gel)point		°C	305
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			74
	method B			48

* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.

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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	

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AWG PTFE TUBE (clear)

spec	ID			OD			Package (meter)
AWG	Min	Normal	Max	S-TYPE	T-TYPE	L-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

- in custom made sizes, we can produce basically any size.
- 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.

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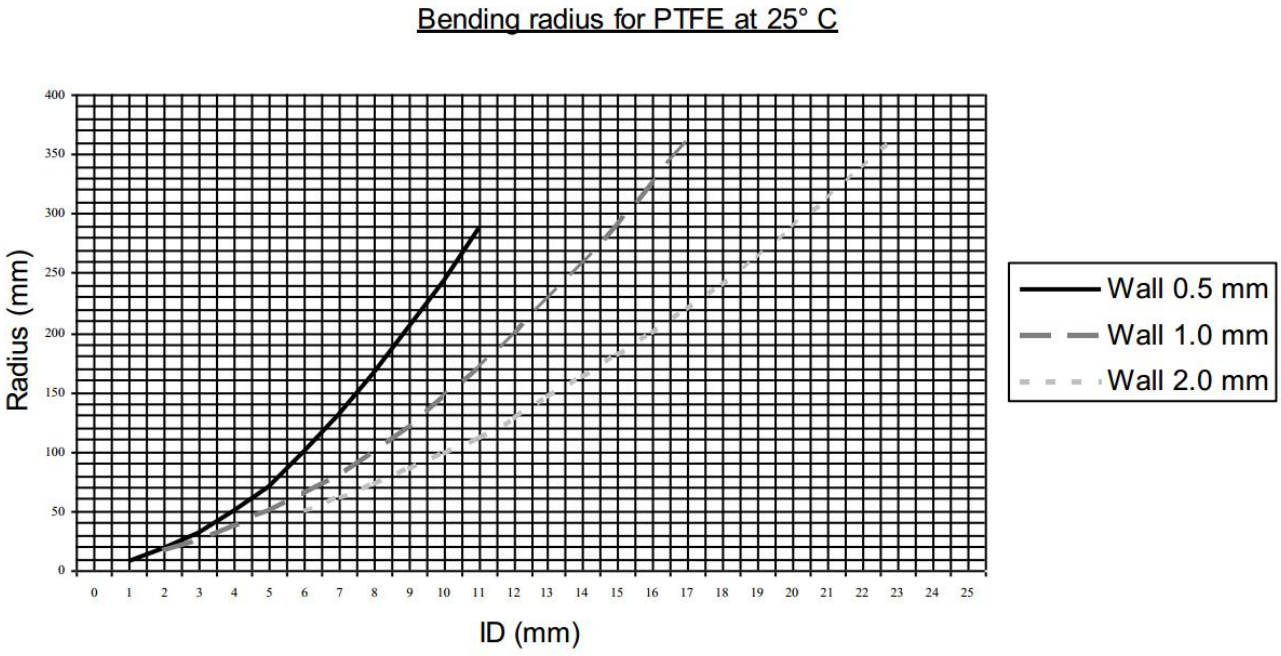
Standard tolerances: PTFE tubing

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



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Data sheet: PTFE Tubing

Key properties of PTFE tubing

- PTFE has the lowest coefficient of friction of allpolymers.
- 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 10^6Hz		
	Dielectric strength (short term) 10 mils film	D 150 at 10^3 Hz		
	Volume resistivity	D 150 at 106Hz		
		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
	Deflection temperature 66 psi 264 psi	D 648	° F	252 131

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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℃ -54℃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	>1018
(Weather Resistance)	“Weather-O-Meter” (2000h)	No cracking
(Solvent Resistance)	ASTM D543	Excellent
(Chemical Resistance)	ASTM D543	Excellent

Dimensions:ptfe 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.

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PFA tube

ID	ID tol	Wall	Wall tol	OD
mm	+/- mm	mm	+/- mm	mm
1,00	0,05	0,50	0,07	2,00
1,00	0,05	1,00	0,15	3,00
1,50	0,10	0,50	0,07	2,50
1,50	0,10	0,75	0,10	3,00
1,50	0,10	1,00	0,15	3,50
2,00	0,10	0,50	0,07	3,00
2,00	0,10	1,00	0,15	4,00
2,50	0,15	0,50	0,07	3,50
2,50	0,15	0,75	0,10	4,00
2,50	0,15	1,00	0,15	4,50
3,00	0,15	0,50	0,07	4,00
3,00	0,15	0,75	0,10	4,50
3,00	0,15	1,00	0,15	5,00
3,00	0,15	1,50	0,20	6,00
3,50	0,15	0,50	0,07	4,50
3,50	0,15	0,75	0,10	5,00
4,00	0,20	0,50	0,07	5,00
4,00	0,20	0,75	0,10	5,50
4,00	0,20	1,00	0,15	6,00
4,00	0,20	1,50	0,20	7,00
4,50	0,20	1,00	0,15	6,50
5,00	0,20	0,50	0,07	6,00
5,00	0,20	0,75	0,10	6,50
5,00	0,20	1,00	0,15	7,00
5,00	0,20	1,50	0,20	8,00
5,00	0,20	2,00	0,20	9,00
5,50	0,20	1,00	0,15	7,50
6,00	0,20	0,50	0,07	7,00
6,00	0,20	1,00	0,15	8,00
6,00	0,20	1,50	0,20	9,00
6,00	0,20	2,00	0,20	10,00
6,50	0,20	0,75	0,10	8,00
7,00	0,20	0,50	0,07	8,00
7,00	0,20	1,00	0,15	9,00
7,00	0,20	1,50	0,20	10,00

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PFA tube

ID	ID tol	Wall	Wall tol.	OD
mm	+/-mm	mm	+/- mm	mm
7,50	0,20	1,00	0,15	9,50
8,00	0,20	0,50	0,07	9,00
8,00	0,20	0,75	0,10	9,50
8,00	0,20	1,00	0,15	10,00
8,00	0,20	2,00	0,20	12,00
8,50	0,30	1,00	0,15	10,50
9,00	0,30	0,50	0,07	10,00
9,00	0,30	0,75	0,10	10,50
9,00	0,30	1,00	0,15	11,00
9,00	0,30	1,50	0,20	12,00
10,00	0,30	0,50	0,07	11,00
10,00	0,30	1,00	0,15	12,00
10,00	0,30	1,50	0,20	13,00
10,00	0,30	2,00	0,20	14,00
10,00	0,30	2,50	0,40	15,00
11,00	0,30	1,00	0,15	13,00
12,00	0,30	1,00	0,15	14,00
12,00	0,30	1,50	0,20	15,00
12,00	0,30	2,00	0,20	16,00
13,00	0,40	1,00	0,15	15,00
13,00	0,40	1,50	0,20	16,00
13,00	0,40	2,50	0,40	18,00
14,00	0,40	0,75	0,10	15,50
14,00	0,40	1,00	0,15	16,00
15,00	0,40	1,00	0,15	17,00
15,00	0,40	1,50	0,20	18,00
16,00	0,40	1,00	0,15	18,00
16,00	0,40	1,50	0,20	19,00
16,00	0,40	2,00	0,20	20,00
16,50	0,40	1,50	0,20	19,50
17,00	0,40	1,50	0,20	20,00
18,00	0,40	1,00	0,15	20,00
18,00	0,40	2,00	0,20	22,00
19,00	0,40	1,00	0,15	21,00

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PFA tube

ID	ID tol	Wall	Wall tol	OD
mm	+/mm	mm	+/ mm	mm
19,00	0,40	1,50	0,20	22,00
20,00	0,40	1,00	0,15	22,00
20,00	0,40	1,50	0,20	23,00
20,00	0,40	2,00	0,20	24,00
21,00	0,50	1,50	0,20	24,00
22,00	0,50	1,00	0,15	24,00
22,00	0,50	1,50	0,20	25,00
25,00	0,50	1,00	0,15	27,00
25,00	0,50	1,50	0,20	28,00
25,00	0,50	2,00	0,20	29,00
28,00	0,50	1,00	0,15	30,00
28,00	0,50	1,50	0,20	31,00
28,00	0,50	2,00	0,20	32,00
28,00	0,50	2,50	0,40	33,00
30,00	0,50	1,00	0,15	32,00
30,00	0,50	1,50	0,20	33,00
30,00	0,50	2,00	0,20	34,00
32,00	0,60	1,00	0,15	34,00
32,00	0,60	1,50	0,20	35,00
32,00	0,60	2,00	0,20	36,00
33,00	0,60	1,00	0,15	35,00
33,00	0,60	1,50	0,20	36,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	2,00	0,20	39,00
36,00	0,60	1,00	0,15	38,00
36,00	0,60	2,00	0,20	40,00
39,00	0,60	1,50	0,20	42,00
40,00	0,60	1,00	0,15	42,00
40,00	0,60	1,50	0,20	43,00

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PFA tube

ID	OD	ID	Wall	OD
inch	inch	mm	mm	mm
1/32	1/16	0,79	0,40	1,59
1/16	1/8	1,59	0,80	3,18
3/32	1/8	2,38	0,40	3,18
1/8	5/32	3,18	0,40	3,97
1/8	3/16	3,18	0,79	4,76
1/8	1/4	3,18	1,59	6,35
5/32	1/4	3,97	1,19	6,35
11/64	1/4	4,35	1,00	6,35
3/16	1/4	4,76	0,80	6,35
1/4	3/8	6,35	1,59	9,52
5/16	3/8	7,94	0,79	9,52
3/8	1/2	9,52	1,59	12,70
1/2	5/8	12,70	1,59	15,87
5/8	3/4	15,87	1,59	19,05
3/4	7/8	19,05	1,59	22,25
7/8	1	22,25	1,59	25,40
1	1 1/4	25,40	3,20	31,75
1 1/4	1 1/2	31,75	3,20	38,10
1 1/2	1 3/4	38,10	3,20	44,45

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FEP tube

100% virgin grade high performance resins designed to resist stress cracking.
High thermal stability.
Superior electrical insulation properties.
Chemically inert to most industrial chemicals and solvents.
An economical alternative to Teflon® tubing
When clarity, flexibility or a lower melt temperature are required, FEP is often choosen. Available in smooth or convoluted tubing (spiral and parallel), in metric, inch and AWG sizes. We can deliver FEP tubing on straight lengths, cut lengths, coils or spools or striped/marked.

Key properties of FEP
- Clear/transparent tubing
- Chemical resistance
- More flexible than PTFE
- Lowest surface tension
- Working temperature from -190°C to +205°C

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	205
	Chemical resistance		-	Excellent
	Specifc gravity	D 792	g/cm³	2.15
Electrical	Dielectric constant	D 150 at 103 Hz		2
		D 150 at 106 Hz		2
	Dielectric dissipation factor	D 150 at 103 Hz		0.0001
		D 150 at 106 Hz		0.0008
	Dielectric strength	D 149	kV/mm	50
	Volume resistivity	D 257	Ohm·cm	>1018
Mechanical	Tensile strength	D 1708, D 638	Mpa	30
	Elongation	D 1708, D 638	%	300
	Compressive strength	D 695	Mpa	15
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	660
	Tensile Modulus	D 638	Mpa	350
	Hardness	D 2240		55-60
Thermal	Melting (gel)point			270
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			59
	method B			57

* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.

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FEP tube

ID	ID tol	Wall	Wall	tol. OD
mm +	+/- mm	mm	+ /- mm	mm
1,00	0,05	0,50	0,07	2,00
1,00	0,05	1,00	0,15	3,00
1,50	0,10	0,50	0,07	2,50
1,50	0,10	0,75	0,10	3,00
1,50	0,10	1,00	0,15	3,50
2,00	0,10	0,50	0,07	3,00
2,00	0,10	1,00	0,15	4,00
2,50	0,15	0,50	0,07	3,50
2,50	0,15	0,75	0,10	4,00
2,50	0,15	1,00	0,15	4,50
3,00	0,15	0,50	0,07	4,00
3,00	0,15	0,75	0,10	4,50
3,00	0,15	1,00	0,15	5,00
3,00	0,15	1,50	0,20	6,00
3,50	0,15	0,50	0,07	4,50
3,50	0,15	0,75	0,10	5,00
4,00	0,20	0,50	0,07	5,00
4,00	0,20	0,75	0,10	5,50
4,00	0,20	1,00	0,15	6,00
4,00	0,20	1,50	0,20	7,00
4,50	0,20	1,00	0,15	6,50
5,00	0,20	0,50	0,07	6,00
5,00	0,20	0,75	0,10	6,50
5,00	0,20	1,00	0,15	7,00
5,00	0,20	1,50	0,20	8,00
5,00	0,20	2,00	0,20	9,00
5,50	0,20	1,00	0,15	7,50
6,00	0,20	0,50	0,07	7,00
6,00	0,20	1,00	0,15	8,00
6,00	0,20	1,50	0,20	9,00
6,00	0,20	2,00	0,20	10,00
6,50	0,20	0,75	0,10	8,00
7,00	0,20	0,50	0,07	8,00
7,00	0,20	1,00	0,15	9,00
7,00	0,20	1,50	0,20	10,00

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FEP tube

ID	ID tol.	Wall	Wall tol.	OD
mm	+/- mm	mm	+/- mm	mm
7,50	0,20	1,00	0,15	9,50
8,00	0,20	0,50	0,07	9,00
8,00	0,20	0,75	0,10	9,50
8,00	0,20	1,00	0,15	10,00
8,00	0,20	2,00	0,20	12,00
8,50	0,30	1,00	0,15	10,50
9,00	0,30	0,50	0,07	10,00
9,00	0,30	0,75	0,10	10,50
9,00	0,30	1,00	0,15	11,00
9,00	0,30	1,50	0,20	12,00
10,00	0,30	0,50	0,07	11,00
10,00	0,30	1,00	0,15	12,00
10,00	0,30	1,50	0,20	13,00
10,00	0,30	2,00	0,20	14,00
10,00	0,30	2,50	0,40	15,00
11,00	0,30	1,00	0,15	13,00
12,00	0,30	1,00	0,15	14,00
12,00	0,30	1,50	0,20	15,00
12,00	0,30	2,00	0,20	16,00
13,00	0,40	1,00	0,15	15,00
13,00	0,40	1,50	0,20	16,00
13,00	0,40	2,50	0,40	18,00
14,00	0,40	0,75	0,10	15,50
14,00	0,40	1,00	0,15	16,00
15,00	0,40	1,00	0,15	17,00
15,00	0,40	1,50	0,20	18,00
16,00	0,40	1,00	0,15	18,00
16,00	0,40	1,50	0,20	19,00
16,00	0,40	2,00	0,20	20,00
16,50	0,40	1,50	0,20	19,50
17,00	0,40	1,50	0,20	20,00
18,00	0,40	1,00	0,15	20,00
18,00	0,40	2,00	0,20	22,00
19,00	0,40	1,00	0,15	21,00

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FEP tube

ID	ID tol	Wall	Wall tol	OD
mm	+/mm	mm	+/ mm	mm
19,00	0,40	1,50	0,20	22,00
20,00	0,40	1,00	0,15	22,00
20,00	0,40	1,50	0,20	23,00
20,00	0,40	2,00	0,20	24,00
21,00	0,50	1,50	0,20	24,00
22,00	0,50	1,00	0,15	24,00
22,00	0,50	1,50	0,20	25,00
25,00	0,50	1,00	0,15	27,00
25,00	0,50	1,50	0,20	28,00
25,00	0,50	2,00	0,20	29,00
28,00	0,50	1,00	0,15	30,00
28,00	0,50	1,50	0,20	31,00
28,00	0,50	2,00	0,20	32,00
28,00	0,50	2,50	0,40	33,00
30,00	0,50	1,00	0,15	32,00
30,00	0,50	1,50	0,20	33,00
30,00	0,50	2,00	0,20	34,00
32,00	0,60	1,00	0,15	34,00
32,00	0,60	1,50	0,20	35,00
32,00	0,60	2,00	0,20	36,00
33,00	0,60	1,00	0,15	35,00
33,00	0,60	1,50	0,20	36,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	2,00	0,20	39,00
36,00	0,60	1,00	0,15	38,00
36,00	0,60	2,00	0,20	40,00
39,00	0,60	1,50	0,20	42,00
40,00	0,60	1,00	0,15	42,00
40,00	0,60	1,50	0,20	43,00

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ID	OD	ID	Wall	OD
inch	inch	mm	mm	mm
1/32	1/16	0,79	0,40	1,59
1/16	1/8	1,59	0,80	3,18
3/32	1/8	2,38	0,40	3,18
1/8	5/32	3,18	0,40	3,97
1/8	3/16	3,18	0,79	4,76
1/8	1/4	3,18	1,59	6,35
5/32	1/4	3,97	1,19	6,35
11/64	1/4	4,35	1,00	6,35
3/16	1/4	4,76	0,80	6,35
1/4	3/8	6,35	1,59	9,52
5/16	3/8	7,94	0,79	9,52
3/8	1/2	9,52	1,59	12,70
1/2	5/8	12,70	1,59	15,87
5/8	3/4	15,87	1,59	19,05
3/4	7/8	19,05	1,59	22,25
7/8	1	22,25	1,59	25,40
1	1 1/4	25,40	3,20	31,75
1 1/4	1 1/2	31,75	3,20	38,10
1 1/2	1 3/4	38,10	3,20	44,45

The above mentioned dimensions and tolerances are our standard.
Other dimensions and/or tolerances available on request.

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PFA tube

For applications requiring more clarity, flexibility and a higher continuous working temperature, PFA is a good choice.

PFA tubing can be delivered in smooth or convoluted design (spiral or parallel), in metric, inch and AWG sizes.

Delivery possible on straight lengths, cut lengths, coils or spools or striped/marked.

Key properties of PFA
• Less creep (less than PTFE)
• **Transparent**
• Melt processable
• Higher continuous working temperature than FEP
• Longer continuous lengths than PTFE (due to melt processability)
• Better performance in high pressure/temperature application than PTFE

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	260
	Chemical resistance		-	Excellent
	Specifc gravity	D 792	g/cm³	2.15
Electrical	Dielectric constant	D 150 at 103 Hz	-	2.04
		D 150 at 106 Hz	-	2.04
	Dielectric dissipation factor	D 150 at 103 Hz	-	0.0002
		D 150 at 106 Hz	-	0.0003
	Dielectric strength	D 149	kV/mm	55
	Volume resistivity	D 257	Ohm·cm	>1018
Mechanical	Tensile strength	D 1708, D 638	Mpa	30
	Elongation	D 1708, D 638	%	300
	Compressive strength	D 695	Mpa	15
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	690
	Tensile Modulus	D 638	Mpa	270
	Hardness	D 2240	-	60-65
Thermal	Melting (gel)point		°C	305
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			74
	method B			48

* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.

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PFA tube

ID	ID tol	Wall	Wall tol	OD
mm	+/- mm	mm	+/- mm	mm
1,00	0,05	0,50	0,07	2,00
1,00	0,05	1,00	0,15	3,00
1,50	0,10	0,50	0,07	2,50
1,50	0,10	0,75	0,10	3,00
1,50	0,10	1,00	0,15	3,50
2,00	0,10	0,50	0,07	3,00
2,00	0,10	1,00	0,15	4,00
2,50	0,15	0,50	0,07	3,50
2,50	0,15	0,75	0,10	4,00
2,50	0,15	1,00	0,15	4,50
3,00	0,15	0,50	0,07	4,00
3,00	0,15	0,75	0,10	4,50
3,00	0,15	1,00	0,15	5,00
3,00	0,15	1,50	0,20	6,00
3,50	0,15	0,50	0,07	4,50
3,50	0,15	0,75	0,10	5,00
4,00	0,20	0,50	0,07	5,00
4,00	0,20	0,75	0,10	5,50
4,00	0,20	1,00	0,15	6,00
4,00	0,20	1,50	0,20	7,00
4,50	0,20	1,00	0,15	6,50
5,00	0,20	0,50	0,07	6,00
5,00	0,20	0,75	0,10	6,50
5,00	0,20	1,00	0,15	7,00
5,00	0,20	1,50	0,20	8,00
5,00	0,20	2,00	0,20	9,00
5,50	0,20	1,00	0,15	7,50
6,00	0,20	0,50	0,07	7,00
6,00	0,20	1,00	0,15	8,00
6,00	0,20	1,50	0,20	9,00
6,00	0,20	2,00	0,20	10,00
6,50	0,20	0,75	0,10	8,00
7,00	0,20	0,50	0,07	8,00
7,00	0,20	1,00	0,15	9,00
7,00	0,20	1,50	0,20	10,00

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PFA tube

ID	ID tol	Wall	Wall tol.	OD
mm	+/-mm	mm	+/- mm	mm
7,50	0,20	1,00	0,15	9,50
8,00	0,20	0,50	0,07	9,00
8,00	0,20	0,75	0,10	9,50
8,00	0,20	1,00	0,15	10,00
8,00	0,20	2,00	0,20	12,00
8,50	0,30	1,00	0,15	10,50
9,00	0,30	0,50	0,07	10,00
9,00	0,30	0,75	0,10	10,50
9,00	0,30	1,00	0,15	11,00
9,00	0,30	1,50	0,20	12,00
10,00	0,30	0,50	0,07	11,00
10,00	0,30	1,00	0,15	12,00
10,00	0,30	1,50	0,20	13,00
10,00	0,30	2,00	0,20	14,00
10,00	0,30	2,50	0,40	15,00
11,00	0,30	1,00	0,15	13,00
12,00	0,30	1,00	0,15	14,00
12,00	0,30	1,50	0,20	15,00
12,00	0,30	2,00	0,20	16,00
13,00	0,40	1,00	0,15	15,00
13,00	0,40	1,50	0,20	16,00
13,00	0,40	2,50	0,40	18,00
14,00	0,40	0,75	0,10	15,50
14,00	0,40	1,00	0,15	16,00
15,00	0,40	1,00	0,15	17,00
15,00	0,40	1,50	0,20	18,00
16,00	0,40	1,00	0,15	18,00
16,00	0,40	1,50	0,20	19,00
16,00	0,40	2,00	0,20	20,00
16,50	0,40	1,50	0,20	19,50
17,00	0,40	1,50	0,20	20,00
18,00	0,40	1,00	0,15	20,00
18,00	0,40	2,00	0,20	22,00
19,00	0,40	1,00	0,15	21,00

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PFA tube

ID	ID tol	Wall	Wall tol	OD
mm	+/mm	mm	+/ mm	mm
19,00	0,40	1,50	0,20	22,00
20,00	0,40	1,00	0,15	22,00
20,00	0,40	1,50	0,20	23,00
20,00	0,40	2,00	0,20	24,00
21,00	0,50	1,50	0,20	24,00
22,00	0,50	1,00	0,15	24,00
22,00	0,50	1,50	0,20	25,00
25,00	0,50	1,00	0,15	27,00
25,00	0,50	1,50	0,20	28,00
25,00	0,50	2,00	0,20	29,00
28,00	0,50	1,00	0,15	30,00
28,00	0,50	1,50	0,20	31,00
28,00	0,50	2,00	0,20	32,00
28,00	0,50	2,50	0,40	33,00
30,00	0,50	1,00	0,15	32,00
30,00	0,50	1,50	0,20	33,00
30,00	0,50	2,00	0,20	34,00
32,00	0,60	1,00	0,15	34,00
32,00	0,60	1,50	0,20	35,00
32,00	0,60	2,00	0,20	36,00
33,00	0,60	1,00	0,15	35,00
33,00	0,60	1,50	0,20	36,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	1,00	0,15	37,00
35,00	0,60	2,00	0,20	39,00
36,00	0,60	1,00	0,15	38,00
36,00	0,60	2,00	0,20	40,00
39,00	0,60	1,50	0,20	42,00
40,00	0,60	1,00	0,15	42,00
40,00	0,60	1,50	0,20	43,00

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PTFE (Teflon),
PFA,
FEP tube

in Stock Melb >>100m

ID inch	OD inch	ID mm	Wall mm	OD mm
1/32	1/16	0,79	0,40	1,59
1/16	**1/8**	1,59	0,80	3,18
3/32	1/8	2,38	0,40	3,18
1/8	5/32	3,18	0,40	3,97
1/8	3/16	3,18	0,79	4,76
1/8	1/4	3,18	1,59	6,35
5/32	1/4	3,97	1,19	6,35
11/64	1/4	4,35	1,00	6,35
3/16	1/4	4,76	0,80	6,35
1/4	3/8	6,35	1,59	9,52
5/16	3/8	7,94	0,79	9,52
3/8	1/2	9,52	1,59	12,70
1/2	5/8	12,70	1,59	15,87
5/8	3/4	15,87	1,59	19,05
3/4	7/8	19,05	1,59	22,25
7/8	1	22,25	1,59	25,40
1	1 1/4	25,40	3,20	31,75
1 1/4	1 1/2	31,75	3,20	38,10
1 1/2	1 3/4	38,10	3,20	44,45

> Any Qty

also opaque PTFE in Stock Melb >>>100m

PTFE(Teflon)	***ID***	***OD***	***PFA***	***ID***	***OD***
CT100/M0.25-T	0.25mm	1/16	CT100/M0.25-PFA	0.25mm	1/16
CT100/M0.5-T	0.5mm	1/16	CT100/M0.5-PFA	0.5mm	1/16
CT100/M0.75-T	0.75mm	1/16	CT100/M0.75-PFA	0.75mm	1/16
CT100/M1.0-T	1.00mm	1/16	CT100/M1.0-PFA	1.00mm	1/16
CT200/100-T	1/16	1/8	CT200/100-PFA	1/16	1/8
CT400/300-T	3/16	1/4	CT400/300-PFA	3/16	1/4

Minimum Order Qty 3metre; 6metre

Aud $25.00 each

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