

PTFE TUBING



KEY ADVANTAGES

- Lowest friction coefficient of all polymers
- Useful in high temperature applications
- High resistance to common solvents and acids
- Virtually unaffected by oxygen, O₃ and UV light
- Broad working temperature (-270°C to 260°C)
- Excellent dielectric insulation properties
- Secondary operations available upon request

DIMENSIONS

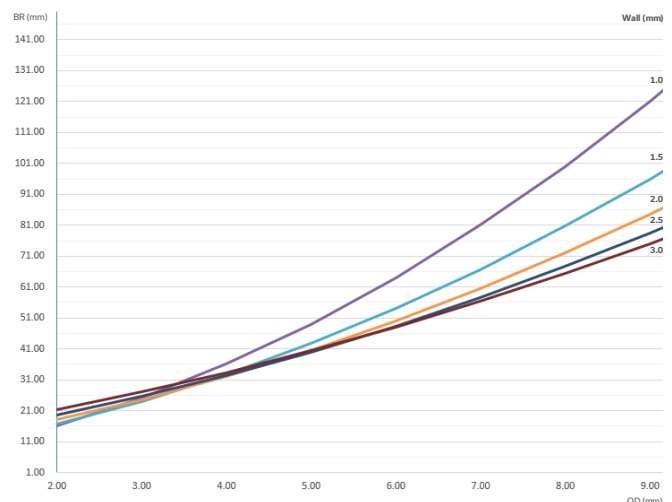
We offer metric, imperial and AWG sizes, ranging from ID 0.1mm up to OD 25mm. Special dimensions and custom lengths can be made upon request.

We can also produce convoluted, single- and multi-lumen tubing in PTFE. All of our tubing can be supplied in colors with enhancing fillers and specific grade approvals. Tell us your application and we will find the best solutions for you.

APPLICATIONS

- General fluid handling: chemical processing industry, laboratory, analytics & water purification (Oz)
- Electrical applications: insulation, cables, cooling, cryogenics & liner for high pressure hoses in transportation
- Food, Beverage and Nutrition Processing

BENDING RADIUS



Contact our sales offices or visit our website for more information about sample and specifications!

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STANDARD TOLERANCES

ID (mm/inch)	Tol (mm/inch)
>0.10 mm / > 0.004"	+/-0.05 mm / +/-0.02"
>1.01 mm / >0.041"	+/-0.10 mm / +/-0.004"
>2.01 mm / >0.079"	+/-0.15 mm / +/-0.006"
>4.01 mm / >0.158"	+/-0.20 mm / +/-0.008"
>8.01 mm / >0.315"	+/-0.30 mm / +/-0.012"
>12.51 mm / >0.493"	+/-0.50 mm / +/-0.020"

Wall (mm/inch)	Tol (mm/inch)
>0.10 mm / >0.004"	+/-0.03 mm 0.0011"
>0.20 mm / >0.008"	+/-0.05 mm 0.0020"
>0.30 mm / >0.012"	+/-0.07 mm 0.0027"
>0.50 mm / >0.020"	+/-0.10 mm 0.0039"
>0.70 mm / >0.0275"	+/-0.12 mm 0.0047"
>0.80 mm / 0.315"	+/-0.15 mm 0.0059"
>1.00 mm / >0.0393"	+/-0.20 mm 0.0079"
>1.25 mm / >0.0492"	+/-0.25 mm 0.0098"
>1.51 mm / >0.0594"	+/-0.30 mm 0.0118"
>3.01 mm / >0.119"	+/-0.50 mm 0.020"

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MATERIAL PROPERTIES

	Property	Specification	Unit	
General	Continuous service temperature	Maximum	°C	260
		Maximum	°F	500
	Chemical resistance			Excellent
	Specific gravity	D 792		2.15
Electrical	Dielectric constant	D 150 at 10 ³ Hz		2.1
		D 150 at 10 ⁶ Hz		2.1
	Dielectric dissipation factor	D 150 at 10 ³ Hz		0.0002
		D 150 at 10 ⁶ Hz		0.0002
	Dielectric strength	D 149	Volt/mil	> 1 400
	Volume resistivity	D 257	Ohm • cm	> 10 ¹⁸
Environmental	Water absorption	D 570	%	< 0.01
	Weather resistance			Excellent
	Oxygen 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	D 648	°C	122
	264 psi	D 648	°C	55
	Deflection temperature			
	66 psi	D 648	°F	252
	264 psi	D 648	°F	131

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