



Dongguan Suniu Electronics Co., Ltd

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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 | |
| 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 |

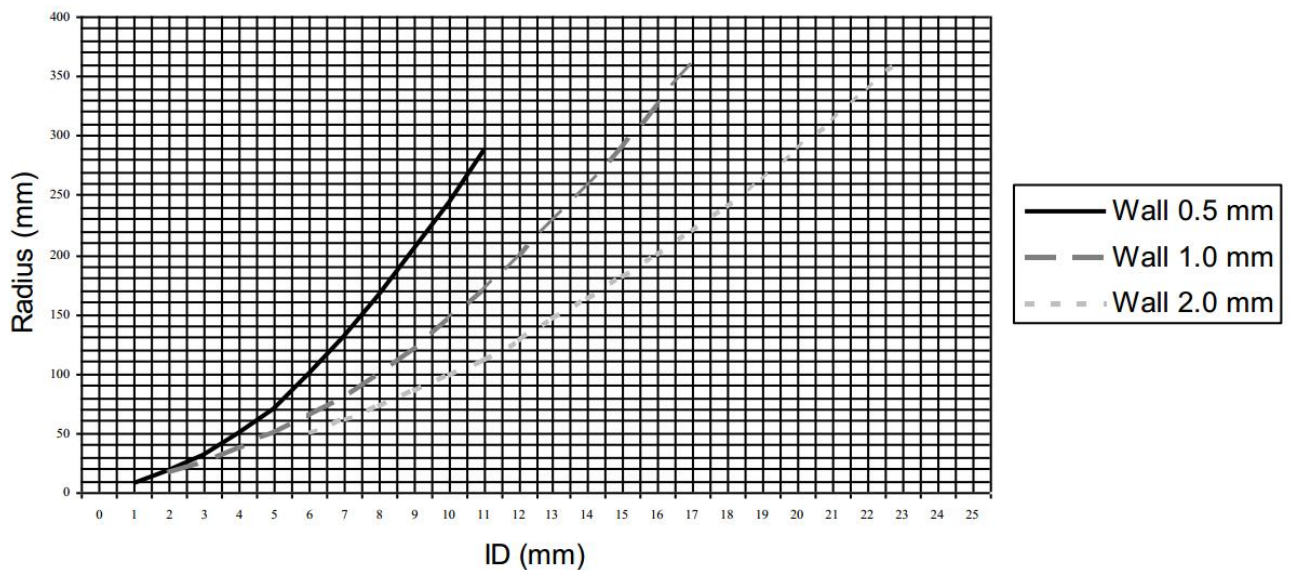
Suniu tube is specialist in custom made sizes, we can produce basically any size. Suniu tube produces tubing from miniature sizes, with an inside diameter from below 0.10 mm, to industrial sizes. Wall sizes are available from below 0.10 mm up to 5.00 mm. Standard sizes are listed below.

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: ptf 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