# POLYURETHANE TUBING

Shaded Blue Area to the Right Are the **STANDARD COLORS**

* For Non-standard colors, add "U" at the end of the part number

**Color Indication**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| B | Black | BU3 | Med Blue | PU2 | TR Purple |
| BU | Blue | BR1 | Brown (solid) | R1 | Red (solid) |
| C | Clear | G1 | Green (solid) | R2 | TR Red |
| G | Green | G2 | TR Green | S1 | Silver |
| R | Red | G3 | Neon Green | Y1 | Yellow (solid) |
| W | White | G4 | Dark Green | Y2 | TR Yellow |
| Y | Yellow | GR1 | Gray (solid) | Y3 | Neon Yellow |
| YR | Orange | GR2 | Lt. Gray (solid) | YR1 | TR Orange |
| BU1 | Blue (solid) | P1 | Neon Pink | YR2 | Neon Orange |
| BU2 | TR Blue | PU1 | Purple (solid) | | |

## Polyurethane Tubing

Applicable for compressed air, and general industry water. Consult SMC if using for other kind of fluid. Surge pressure must be under the max. operating pressure. If exceeding that value, fitting may be damaged and tubing may burst.

Polyurethane tubing is fast becoming the ideal choice for pneumatic applications. It combines the elasticity of rubber with the chemical resistance normally reserved for plastics. Polyurethane can be put into two classifications, ester based and ether based. SMC offers both. Ether-based polyurethane is the preferred tubing material for general pneumatic applications due to its immunity to hydrolysis and its higher resistance to fungus and microorganism attacks. The ester-based polyurethane is a stronger compound but tends to hydrolyze with moisture. This hydrolysis process will degrade the material over time.

SMC's primary line of Polyurethane tubing is ether based, made from the highest quality compound available to ensure the longest tubing life.

**Properties**
- Cut Resistance
- Excellent Memory
- Wide Temperature Range
- Low Compression Set
- Low Gas Permeability
- Kink Resistant
- Tear Resistant
- Abrasion Resistant
- Extreme Flexibility
- Good Chemical Resistance

**Specifications**
- Temp. Range: –4°F to 140°F
- Max. Operating Pressure: 115 psi (68°F)
- Hardness: Shore A 95
- Packaged in Bags Except Noted

### Polyurethane Tubing — Black

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071205 | TIUB01B-20 | 1/8" | 66 ft. (20 m) | 9.20 |
| 70071206 | TIUB01B-33 | 1/8" | 100 ft. | 14.53 |
| 70071244 | TU0425B-20 | 5/32" (4 mm) | 66 ft. (20 m) | 14.20 |
| 70071245 | TU0425B-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071405 | TIUB07B-20 | 3/16" | 66 ft. (20 m) | 24.00 |
| 70071257 | TU0604B-20 | 6 mm | 66 ft. (20 m) | 26.60 |
| 70071258 | TU0604B-33 | 6 mm | 100 ft. | 35.80 |
| 70071221 | TIUB07B-33 | 1/4" | 100 ft. | 38.27 |
| 70071220 | TIUB07B-153 | 1/4" | 500 ft. | 153.00 |
| 70071408 | TU0805B-20 | 5/16" (8 mm) | 66 ft. (20 m) | 40.00 |
| 70071268 | TU0805B-33 | 5/16" (8 mm) | 100 ft. | 64.67 |
| 70071233 | TIUB11B-33 | 3/8" | 100 ft. | 74.58 |
| 70071275 | TU1065B-20 | 10 mm | 66 ft. (20 m) | 60.00 |
| 70071278 | TU1208B-20 | 12 mm | 66 ft. (20 m) | 86.00 |

### Polyurethane Tubing — Clear

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071211 | TIUB01C-33 | 1/8" | 100 ft. | 14.53 |
| 70071250 | TU0425C-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071262 | TU0604C-20 | 6 mm | 66 ft. (20 m) | 26.60 |
| 70071410 | TIUB07C-20 | 1/4" | 66 ft. (20 m) | 24.00 |
| 70071227 | TIUB07C-33 | 1/4" | 100 ft. | 38.27 |
| 70071226 | TIUB07C-153 | 1/4" | 500 ft. | 153.00 |
| 70071270 | TU0805C-33 | 5/16" (8 mm) | 100 ft. | 64.67 |
| 70071237 | TIUB11C-33 | 3/8" | 100 ft. | 74.58 |
| 70071240 | TIUB13C-33 | 1/2" | 100 ft. | 130.35 |

### Polyurethane Tubing — Blue

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071209 | TIUB01BU-33 | 1/8" | 100 ft. | 14.53 |
| 70071208 | TIUB01BU-20 | 1/8" | 66 ft. (20 m) | 9.20 |
| 70071247 | TU0425BU-20 | 5/32" (4 mm) | 66 ft. (20 m) | 14.20 |
| 70071248 | TU0425BU-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071260 | TU0604BU-20 | 6 mm | 66 ft (20 m) | 26.60 |
| 70071259 | TU0604BU-100 | 6 mm | 100 m | 120.00 |
| 70071223 | TIUB07BU-20 | 1/4" | 66 ft. (20 m) | 24.00 |
| 70071224 | TIUB07BU-33 | 1/4" | 100 ft. | 38.27 |
| 70071222 | TIUB07BU-153 | 1/4" | 500 ft. | 153.00 |
| 70071883 | TIUB07BU-305 | 1/4" | 1000 ft. | 298.90 |
| 70071409 | TU0805BU-20 | 5/16" (8 mm) | 66 ft. (20 m) | 40.00 |
| 70071269 | TU0805BU-33 | 5/16" (8 mm) | 100 ft. | 64.67 |
| 70071234 | TIUB11BU-20 | 3/8" | 66 ft. (20 m) | 46.00 |
| 70071235 | TIUB11BU-33 | 3/8" | 100 ft. | 74.58 |
| 70071406 | TIUB13BU-20 | 1/2" | 66 ft. (20 m) | 80.00 |

### Soft Polyurethane Tubing — Blue

- Extremely Flexible

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071650 | TUS0425BU-20 | 5/32" (4 mm) | 66 ft. (20 m) | 15.33 |

### Polyurethane Tubing — Green

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071213 | TIUB01G-33 | 1/8" | 100 ft. | 14.53 |
| 70071252 | TU0425G-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071263 | TU0604G-20 | 6 mm | 66 ft. (20 m) | 26.60 |
| 70071228 | TIUB07G-33 | 1/4" | 100 ft. | 38.27 |

### Polyurethane Coil Tubing — Black

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Max. Operating Length (m) | No. of Windings Per Length | Coil (mm) | | EACH |
|---|---|---|---|---|---|---|---|
| | | | | | Length | Dia. | |
| 70071296 | TCU0425B-1* | 4 mm | 1.5 | 52 | 210 | 18 | 16.95 |
| 70071297 | TCU0425B-2† | 4 mm | 1.5 | 35 | 280 | 28 | 32.46 |
| 70071298 | TCU0604B-1* | 6 mm | 2.0 | 54 | 325 | 24 | 21.40 |

*1 Tube. †2 Tube.

### Polyurethane Tubing — Red

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071253 | TU0425R-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071264 | TU0604R-20 | 6 mm | 66 ft. (20 m) | 26.60 |
| 70071229 | TIUB07R-33 | 1/4" | 100 ft. | 38.27 |
| 70071634 | TIUB07R1-153 | 1/4" | 500 ft. | 153.00 |

### Polyurethane Tubing — White



| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071265 | TU0604W-20 | 6 mm | 66 ft. (20 m) | 26.60 |

### Polyurethane Tubing — Yellow

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071407 | TU0425Y-20 | 5/32" (4 mm) | 66 ft. (20 m) | 14.20 |
| 70071254 | TU0425Y-33 | 5/32" (4 mm) | 100 ft. | 22.77 |
| 70071267 | TU0604Y-20 | 6 mm | 66 ft. (20 m) | 26.60 |
| 70071231 | TIUB07Y-33 | 1/4" | 100 ft. | 38.27 |

### Polyurethane Tubing — Orange

| Stock No. | Mfr.'s Type | Tubing Size (OD) | Length | EACH |
|---|---|---|---|---|
| 70071255 | TU0425YR-33 | 5/32" (4 mm) | 100 ft. | 22.77 |

## Tubing Sold by the Foot

| Stock No. | Mfr.'s Type* | Tubing Size (OD) | Color | PRICE PER FOOT |
|---|---|---|---|---|
| 70071207 | TIUB01B-FT | 1/8" | Black | .14 |
| 70071212 | TIUB01C-FT | 1/8" | Clear | .14 |
| 70071246 | TU0425B-FT | 5/32" (4 mm) | Black | .23 |
| 70071251 | TU0425C-FT | 5/32" (4 mm) | Clear | .23 |
| 70070936 | TIUB07B-FT | 1/4" | Black | .38 |
| 70071225 | TIUB07BU-FT | 1/4" | Blue | .38 |
| 70071241 | TIUB13C-FT | 1/2" | Clear | 1.63 |

*Specify length in feet, for example order quantity 5 to get a 5 foot length.