

PTFE Tubing

Polyflon offers the highest quality PTFE tubes produced from only premium virgin raw material grades. Close attention is always paid to finished surface smoothness, ID/OD concentricity and circularity.



Key features



Outstanding low friction/non-stick properties



Excellent resistance to almost all solvents, acids & bases



Very wide temperature range from -270°C (-454°F) to 260°C (500°F)



Virtually unaffected by oxygen, UV light and ozone



Most grades FDA conforming and USP Class VI compliant

PTFE tubing availability

- In coils or on spools
- Straight pieces with clean, square cuts
- Can be supplied in heat sealed PE bags to maintain cleanliness
- Spiral cut for wire/cable management
- Longitudinally slit for 'snap on' sleeving
- Carbon filled for improved conductivity, ceramic filled for better wear
- Pigmented (solid/striped) for quick media identification
- Can be supplied as finished tubing assemblies with connectors



Standard metric sizes

| ID | ID tol. +/- | OD | W | W tol. +/- | MBR | W/P @ 23°C (bar) | B/P @ 23°C (bar) |
|-------|-------------|-------|------|------------|-----|------------------|------------------|
| 1.00 | 0.05 | 2.00 | 0.50 | 0.10 | 8 | 28 | 140 |
| 2.00 | 0.10 | 4.00 | 1.00 | 0.20 | 16 | 28 | 140 |
| 2.50 | 0.15 | 4.00 | 0.75 | 0.12 | 22 | 16 | 84 |
| 3.00 | 0.15 | 4.00 | 0.50 | 0.10 | 32 | 9 | 46 |
| 3.50 | 0.15 | 4.50 | 0.50 | 0.10 | 41 | 8 | 40 |
| 4.00 | 0.15 | 6.00 | 1.00 | 0.20 | 36 | 14 | 70 |
| 5.00 | 0.20 | 8.00 | 1.50 | 0.25 | 43 | 16 | 84 |
| 6.00 | 0.20 | 8.00 | 1.00 | 0.20 | 64 | 9 | 46 |
| 8.00 | 0.20 | 10.00 | 1.00 | 0.20 | 100 | 7 | 35 |
| 9.00 | 0.30 | 12.00 | 1.50 | 0.25 | 96 | 9 | 46 |
| 10.00 | 0.30 | 12.00 | 1.00 | 0.20 | 144 | 5 | 28 |
| 12.00 | 0.30 | 14.00 | 1.00 | 0.20 | 196 | 4 | 23 |

Standard imperial sizes

| ID | ID (mm) | ID tol. +/- (mm) | OD | OD (mm) | W (mm) | W tol. +/- (mm) | MBR | W/P @ 23°C (bar) | B/P @ 23°C (bar) |
|-------|---------|------------------|-------|---------|--------|-----------------|-----|------------------|------------------|
| 1/32" | 0.79 | 0.05 | 1/16" | 1.59 | 0.40 | 0.07 | 7 | 28 | 141 |
| 1/16" | 1.59 | 0.10 | 1/8" | 3.18 | 0.79 | 0.12 | 13 | 27 | 139 |
| 1/8" | 3.18 | 0.15 | 1/4" | 6.35 | 1.59 | 0.30 | 26 | 28 | 140 |
| 5/32" | 3.97 | 0.15 | 1/4" | 6.35 | 1.19 | 0.20 | 34 | 16 | 83 |
| 3/16" | 4.76 | 0.20 | 1/4" | 6.35 | 0.79 | 0.12 | 51 | 9 | 46 |
| 1/4" | 6.35 | 0.20 | 5/16" | 7.94 | 0.79 | 0.12 | 80 | 7 | 35 |
| 1/4" | 6.35 | 0.20 | 3/8" | 9.53 | 1.59 | 0.30 | 57 | 14 | 70 |
| 3/8" | 9.53 | 0.30 | 1/2" | 12.70 | 1.59 | 0.30 | 102 | 9 | 46 |
| 1/2" | 12.70 | 0.50 | 5/8" | 15.88 | 1.59 | 0.30 | 159 | 7 | 35 |
| 5/8" | 15.88 | 0.50 | 3/4" | 19.05 | 1.59 | 0.30 | 228 | 6 | 28 |
| 7/8" | 22.22 | 0.50 | 1" | 25.40 | 1.59 | 0.30 | 311 | 4 | 20 |

MBR = Minimum Bend Radius (mm) | W/P = Working Pressure | B/P = Burst Pressure

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