



mitos-P

- Platinum-cured silicone tubing
- Ideal for manifold assemblies

mitos-P is a nonreinforced platinum-cured silicone tubing with lot and part number etched directly onto the tubing. mitos-P is well suited for performance in applications requiring use of peristaltic pumps and / or molded assemblies.

This precision tubing is manufactured with an automated control system that repeatedly measures the inner bore and wall thickness, maintaining a 0.002" to 0.008" tolerance.

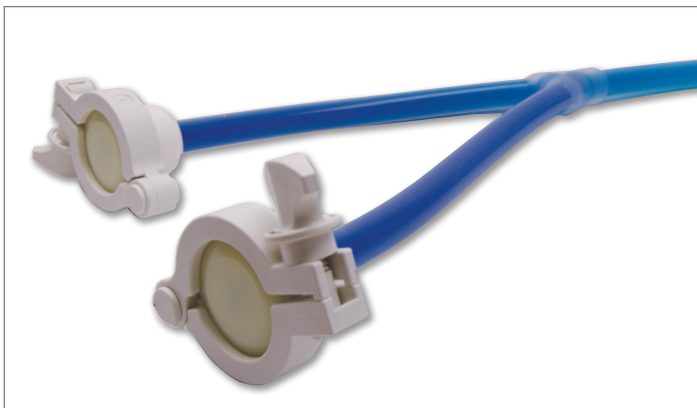
Features and Benefits

- Lot number, tube ID and wall thickness marked on each tube
- Tightest wall tolerance available (0.002" to 0.008")
- Ideal for molding with other silicones into manifold assemblies (Ts, Ys, crosses, elbows and reducers)
- Certificate of conformance included with each order
- Manufactured in ISO Class 7 cleanroom
- Can be chemically or mechanically cleaned and can be sterilized by chemicals, autoclave or gamma-irradiation
- Available in four different wall thicknesses and internal diameters up to 1"



Ideal for use in peristaltic pumps and molded assemblies

mitos-P is the preferred platinum-cured silicone tubing for use in peristaltic pumps and molded assemblies because of its consistency in dimensions. This consistency delivers optimum performance in both applications by providing steady flow rates during pumping and by ensuring better bonding during molding, giving greater integrity to the assembly.



Applications

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|------------------------------|
| Single-use applications |
| Molded manifold assemblies |
| Peristaltic pumps |
| Bioprocess container systems |
| Low pressure transfer lines |

Specifications

Materials of Construction

- Material: Platinum-cured silicone

Optional Fittings

- Molded tri-clamp
- Radially-cripped 316L stainless steel
- All other industry standard connections

Working Temperature Range

-4 °F (-20 °C) to 176 °F (80 °C)

Physical Properties

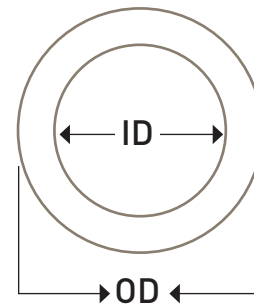
- Elongation at break (%): ASTM D-412 550-1500
- Shore hardness: ASTM D-2240 55-57 Shore A
- Specific gravity: ASTM D-792 1.135-2.37
- Compression set: N/A 5.0-42.5%
- Tear strength: die B(PPI) ASTM D-412 200-500
- Gamma: up to 50 kGy
- Autoclave: 1 bar (14.5 psi) @ 121 °C (250 °F)

Certified Standard of Compliance

- FDA CFR 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993
- Additional validation testing performed, see validation guide for details

Sizes

| Part Number | ID | OD | Wall | Pump size | Burst Pressure (psi) |
|--------------|-------|--------|-------|-----------|----------------------|
| 02-MITOS-P-2 | 1/8" | 1/4" | 1/16" | 300 / 500 | 80 |
| 02-MITOS-P-3 | 1/8" | 5/16" | 3/32" | 300 / 500 | 120 |
| 03-MITOS-P-2 | 3/16" | 5/16" | 1/16" | 300 / 500 | 60 |
| 03-MITOS-P-3 | 3/16" | 3/8" | 3/32" | 300 / 500 | 80 |
| 04-MITOS-P-2 | 1/4" | 3/8" | 1/16" | 300 / 500 | 50 |
| 04-MITOS-P-3 | 1/4" | 7/16" | 3/32" | 300 / 500 | 60 |
| 04-MITOS-P-4 | 1/4" | 1/2" | 1/8" | 600 | 80 |
| 05-MITOS-P-2 | 5/16" | 7/16" | 1/16" | 600 | 30 |
| 05-MITOS-P-3 | 5/16" | 1/2" | 3/32" | 600 | 50 |
| 06-MITOS-P-4 | 3/8" | 5/8" | 1/8" | 600 | 60 |
| 06-MITOS-P-5 | 3/8" | 3/4" | 3/16" | 700 | 80 |
| 08-MITOS-P-4 | 1/2" | 3/4" | 1/8" | 600 | 50 |
| 08-MITOS-P-5 | 1/2" | 7/8" | 3/16" | 700 | 60 |
| 10-MITOS-P-4 | 5/8" | 7/8" | 1/8" | 700 | 30 |
| 10-MITOS-P-5 | 5/8" | 1" | 3/16" | 700 | 50 |
| 12-MITOS-P-5 | 3/4" | 1 1/8" | 3/16" | 700 | 50 |
| 16-MITOS-P-5 | 1" | 1 3/8" | 3/16" | 700 | 30 |



Parker domnick hunter technologies can be combined to produce integrated solutions that will speed up development times, increase efficiency and safety, and guarantee reproducible product quality.



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