

Pumpsil

Pumpsil platinum-cured silicone tubing



Features and benefits

- Fully documented biocompatibility and comprehensive validation pack
- Absolute traceability with laser etched part number, lot number and use-by date
- Excellent flow stability for accurate process control
- Comprehensive stock of a wide range of sizes
- Operating temperature -4 °F to 176 °F



Technical specifications

| | Pumpsil |
|-----------------------------------|---|
| Bore size | 0.5 - 25.4 mm |
| Bore size | 0.02 - 1 in |
| Wall thickness | 1.6 - 4.8 mm |
| Wall thickness | 0.063 - 0.188 in |
| Length | 3 - 152 m |
| Color | Colorless |
| Transparency | Translucent |
| Spallation | Low |
| Certification | FDA 21CFR177.2600, Ph. Eur. 3.1.9, Regulation (EC) No 1935/2004, USP Class VI |
| Operating temperature range | -20 to 80 °C |
| Operating temperature range | -4 to 176 °F |
| Hardness, shore A (5sec) | 60 |
| Specific gravity | 1.16 g/ml |
| UV resistance | Excellent |
| Tear B | 0.02 - 0.06 kN/m |
| Tear B | 200-500 ppi |
| Ultimate tensile strength | 1306 psi |
| Ultimate tensile strength | 9 MPa |
| Elongation at break | 550-1500 % |
| Tensile stress at 100% elongation | 8.13 MPa |
| Tensile stress at 100% elongation | 1180 Psi |
| Gas permeability rating | Low |
| Compression set | 5-42.5 % |
| Water absorption | Low |
| Shelf life | 5 years |
| Gamma stability | 25-50kGy |
| Autoclave stability | 121 °C 30 minutes |
| Sterilisation methods | Autoclave, EtO, Gamma |

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B ISO 34-2; Ultimate tensile strength, Elongation at break, Tensile stress at 100 % elongation ISO 37; compression set ISO 815-1; ASTM D 412

Materials of construction

| | Pumpsil |
|--------|-------------------------|
| Tubing | Platinum-cured silicone |

Product codes

| Tube ordering codes | | | | | | |
|---------------------|------|------|------|--------------|----------------|-------------------|
| Bore | | Wall | | Coil size | | |
| mm | inch | mm | inch | 15m/50ft | 5m/16ft | 152m/500ft |
| 0.5 | 1/50 | 1.6 | 1/16 | 913.A005.016 | 913.AJ05.016 | 913.B005.R16 |
| 0.8 | 1/32 | 1.6 | 1/16 | 913.A008.016 | 913.AJ08.016 | 913.B008.R16 |
| 1.2 | 3/64 | 1.6 | 1/16 | 913.A012.016 | 913.AJ12.016 | 913.B012.R16 |
| 1.6 | 1/16 | 1.6 | 1/16 | 913.A016.016 | 913.AJ16.016 | 913.B016.R16 |
| 2.4 | 3/32 | 1.6 | 1/16 | 913.A024.016 | 913.AJ24.016 | 913.B024.R16 |
| 3.2 | 1/8 | 1.6 | 1/16 | 913.A032.016 | 913.AJ32.016 | 913.B032.R16 |
| 4.8 | 3/16 | 1.6 | 1/16 | 913.A048.016 | 913.AJ48.016 | 913.B048.R16 |
| 6.4 | 1/4 | 1.6 | 1/16 | 913.A064.016 | 913.AJ64.016 | 913.B064.R16 |
| | | | | | | 122m/400ft |
| 8.0 | 5/16 | 1.6 | 1/16 | 913.A080.016 | 913.AJ80.016 | 913.B080.R16 |
| | | | | | | 152m/500ft |
| 0.5 | 1/50 | 2.4 | 3/32 | 913.A005.024 | 913.AJ05.024 | 913.B005.R24 |
| 0.8 | 1/32 | 2.4 | 3/32 | 913.A008.024 | 913.AJ08.024 | 913.B008.R24 |
| 1.6 | 1/16 | 2.4 | 3/32 | 913.A016.024 | 913.AJ16.024 | 913.B016.R24 |
| 3.2 | 1/8 | 2.4 | 3/32 | 913.A032.024 | 913.AJ32.024 | 913.B032.R24 |
| | | | | | | 122m/400ft |
| 4.8 | 3/16 | 2.4 | 3/32 | 913.A048.024 | 913.AJ48.024 | 913.B048.R24 |
| | | | | | | 91m/300ft |
| 6.4 | 1/4 | 2.4 | 3/32 | 913.A064.024 | 913.AJ64.024 | 913.B064.R24 |
| | | | | | | 61m/200ft |
| 8.0 | 5/16 | 2.4 | 3/32 | 913.A080.024 | 913.AJ80.024 | 913.B080.R24 |
| | | | | | | 46m/150ft |
| 9.6 | 3/8 | 2.4 | 3/32 | 913.A096.024 | 913.AJ96.024 | 913.B096.R24 |
| | | | | | 3m/10ft | 91m/300ft |
| 4.8 | 3/16 | 3.2 | 1/8 | 913.A048.032 | 913.A048.I32 | 913.B048.R32 |
| | | | | | | 61m/200ft |
| 6.4 | 1/4 | 3.2 | 1/8 | 913.A064.032 | 913.A064.I32 | 913.B064.R32 |
| | | | | | | 46m/150ft |
| 9.6 | 3/8 | 3.2 | 1/8 | 913.A096.032 | 913.A096.I32 | 913.B096.R32 |
| | | | | | | 30m/100ft |
| 12.7 | 1/2 | 3.2 | 1/8 | 913.A127.032 | 913.A127.I32 | 913.B127.R32 |
| 15.9 | 5/8 | 3.2 | 1/8 | 913.A159.032 | 913.A159.I32 | - |
| 8.0 | 5/16 | 4.0 | - | 913.A080.040 | 913.A080.I40 | - |
| 12.0 | - | 4.0 | - | 913.A120.040 | 913.A120.I40 | - |
| 16.0 | - | 4.0 | - | 913.A160.040 | 913.A160.I40 | - |
| 9.6 | 3/8 | 4.8 | 3/16 | 913.A096.048 | 913.A096.I48 | - |
| 12.7 | 1/2 | 4.8 | 3/16 | 913.A127.048 | 913.A127.I48 | - |
| 15.9 | 5/8 | 4.8 | 3/16 | 913.A159.048 | 913.A159.I48 | - |
| 19.0 | 3/4 | 4.8 | 3/16 | 913.A190.048 | 913.A190.I48 | - |
| 25.4 | 1 | 4.8 | 3/16 | 913.A254.048 | 913.A254.I48 | - |

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