



Certificate No. 6872

Pureprene Pump Tubing

Long Life Peristaltic Pump Tubing

Pureprene Pump Tubing is our first recommendation for applications requiring a wide chemical compatibility as it is highly resistant to oxidising agents such as O-Zone, Peroxides and Sodium Hypochlorite.

It is a long life Thermoplastic Elastomer Peristaltic Pump Tubing, which has low permeability to Oxygen, Carbon Dioxide and Nitrogen and it meets USDA standards for food handling.

Pureprene Tubing leads the way where long life and chemical resistance are as vital as economy and lasts 10 times longer than alternative tubing, not only is it designed to reduce time lost in production stoppages for tube changes it is also easily fitted to new and existing transfer systems and requires minimal maintenance.

Key Benefits:

- Ideal tubing for prolonged pump use.
- Burst resistance expands peristaltic pump use.
- FDA Approved.
- Excellent Chemical Resistance
- Can be sterilised via Gamma, Autoclave, EtO, CIP, SIP.
- Fewer shutdowns; increases productivity.

Key Features:

- Long-life, robust metering tube.
- Wide chemical compatibility.
- Available in three levels of Shore hardness.
- Highly resistant to oxidising agents.
- High chemical resistance to acids and alkalis.
- Meets USDA standards for handling aqueous food.
- Working temperature range 5°C - 80°C.
- High chemical resistance to acids and alkalis.





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Facts & Features:

Pureprene offers exceptionally long life and resistance to a wide range of chemicals. It is a first choice for applications including metering tablet-coating materials, pH control and media feed in fermentation and bioreactor metering, as well as pharmaceutical handling, dispensing, metering, transfer and filtration.

Pureprene Tube Assemblies can be supplied with either Moulded, Re-Usable or Crimped Sterile end connections. Pureprene is also fully compatible with our Flow Control Closure Clamps, allowing you to keep close control of product flow rates.

Facts & Figures:

- Material: Thermoplastic elastomer.
- Colour/Transparency: Beige / opaque.
- Spallation: Fair.
- Certification: FDA regulations 21 CFR 177.2600 for contact with aqueous food.
- Sterilisation methods: Gamma, autoclave, ETO. CIP, SIP.
- Operating temperature: 5°C - 80°C.
- Hardness, Shore A (5 sec): 64 shore: 66; 73 shore: 74; 87 shore: 88.
- Specific Gravity: 64 shore: 0.97; 73 shore: 0.96; 87 shore: 0.95.
- Ultimate Tensile Strength, psi: 64 shore: 1007; 73 shore: 1410; 87 shore: 2263.
- Elongation at Break, %: 64 shore: 473; 73 shore: 510; 87 shore: 547.
- Tensile Stress at 100% Elongation, psi: 64 shore: 367; 73 shore: 525; 87 shore: 987.
- Weather Resistance: Excellent.
- Sunlight Resistance: Excellent.
- Gas Permeability Rating: Fair.
- Water Absorption: Good.
- Odour: Excellent.

ASTM methods Hardness: ASTM D 2240; **Specific Gravity:** ASTM D 792; **Tear B, Ultimate Tensile Strength, Elongation at break, Tensile Stress at 100% elongation:** ASTM D 412

Table of Sizes & Dimensions

BORE		WALL		AVAILABLE COIL SIZES
inch	mm	inch	mm	
1/50	0.5	1/16	1.6	15m / 50ft
1/32	0.8	1/16	1.6	
1/16	1.6	1/16	1.6	
3/32	2.4	1/16	1.6	
1/8	3.2	1/16	1.6	
3/16	4.8	1/16	1.6	
1/4	6.4	1/16	1.6	
5/16	8.0	1/16	1.6	
1/16	1.6	3/32	2.4	
1/8	3.2	3/32	2.4	
3/16	4.8	3/32	2.4	
1/4	6.4	3/32	2.4	
5/16	8.0	3/32	2.4	
3/8	9.6	3/32	2.4	
1/4	6.4	1/8	3.2	
3/8	9.6	1/8	3.2	
1/2	12.7	1/8	3.2	
5/8	15.9	1/8	3.2	
-	8.0	-	4.0	
-	12.0	-	4.0	
-	16.0	-	4.0	
3/8	9.6	3/16	4.8	
1/2	12.7	3/16	4.8	
5/8	15.9	3/16	4.8	
3/4	19.0	3/16	4.8	
1	25.4	3/16	4.8	