

Innovaprene[®] P 60



BIO-PHARMA PUMP TUBING

Formulated biocompatible fluid surface and ideal for use in CIP and SIP sterilization systems. Less permeable to gases and vapors. Over 1,000 hours pump life.

USP Class VI, ISO 10993

CIP / SIP



Innovaprene[®] P 60

P60 has been formulated to withstand the rigors of peristaltic pumping action while providing low particle spallation, repeated cleaning and sterilization, and resistance to chemicals and solvents. It was fully tested to USP Class VI and ISO 10993 standards. Therefore, P60 is ideal for protecting cell culture, fermentation, synthesis, separation, purification, and process monitoring and control system in clinic, bio-pharma, analytical applications.

Features

- Long pump life
- Low spallation
- Repeated SIP/CIP cleaning
- Full lot traceable
- Biocompatible
- Manufactured in ISO Class 7 clean room
- 55A to 70A durometers

Regulations

- ISO 10993
- USP 87/88 Class VI
- ADCF
- Drug Master File (in process)

Applications

- Peristaltic pump use
- Single use system
- Cell harvest and media process
- Vaccine manufacturing
- Bioreactor process line
- Sterile filling
- Filtration, fermentation



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Innovaprene® P 60 inventoried sizes

| Model # | Tube # | I.D. | | O.D. | | Wall thickness | | Length / Box* | |
|--------------------|--------|-------|--------|-------|--------|----------------|--------|---------------|--------|
| | | (mm) | (Inch) | (mm) | (Inch) | (mm) | (Inch) | (M) | (Feet) |
| PP50-202-0100-0300 | | 1.00 | | 3.00 | | 1.00 | | 15.2 | 50 |
| PP50-202-0200-0400 | | 2.00 | | 4.00 | | 1.00 | | 15.2 | 50 |
| PP50-202-0300-0500 | | 3.00 | | 5.00 | | 1.00 | | 15.2 | 50 |
| PP50-202-0159-0476 | 14# | 1.59 | 1/16 | 4.76 | 3/16 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0238-0556 | 19# | 2.38 | 3/32 | 5.56 | 7/32 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0318-0635 | 16# | 3.18 | 1/8 | 6.35 | 1/4 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0318-0794 | 120# | 3.18 | 1/8 | 7.94 | 5/16 | 2.38 | 3/32 | 15.2 | 50 |
| PP50-202-0476-0794 | 25# | 4.76 | 3/16 | 7.94 | 5/16 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0476-0953 | 15# | 4.76 | 3/16 | 9.53 | 3/8 | 2.38 | 3/32 | 15.2 | 50 |
| PP50-202-0635-0953 | 17# | 6.35 | 1/4 | 9.53 | 3/8 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0635-1111 | 24# | 6.35 | 1/4 | 11.11 | 7/16 | 2.38 | 3/32 | 15.2 | 50 |
| PP50-202-0794-1111 | 18# | 7.94 | 5/16 | 11.11 | 7/16 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0794-1270 | 35# | 7.94 | 5/16 | 12.70 | 1/2 | 2.38 | 3/32 | 15.2 | 50 |
| PP50-202-0953-1270 | 96# | 9.53 | 3/8 | 12.70 | 1/2 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-0953-1429 | 36# | 9.53 | 3/8 | 14.29 | 9/16 | 2.38 | 3/32 | 15.2 | 50 |
| PP50-202-0953-1588 | 73# | 9.53 | 3/8 | 15.88 | 5/8 | 3.18 | 1/8 | 15.2 | 50 |
| PP50-202-1111-1429 | | 11.11 | 7/16 | 14.29 | 9/16 | 1.59 | 1/16 | 15.2 | 50 |
| PP50-202-1270-1905 | 82# | 12.70 | 1/2 | 19.05 | 3/4 | 3.18 | 1/8 | 15.2 | 50 |

*Other sizes and length can be customized

Innovaprene® P 60 typical physical properties

| Physical Properties | Test Method | Unit | Typical Value |
|-----------------------------|-------------|------|---------------|
| Color | - | | Beige |
| Shore A, 5 sec. | ISO 868 | | 65 |
| Specific gravity | ISO 2781 | | 0.97 |
| Working temperature | | C | -60 to 140 |
| UV resistance | | | Excellent |
| Vapor permeability | | | Fair |
| Moisture absorption | | | Low |
| Tensile strength | ISO 37-2005 | Mpa | 6.70 |
| Elongation at 100% | ISO 37-2005 | % | 620 |
| Tear strength | D1004-94 | kN/m | 40 |
| Compression set, 70C 22hrs. | D395-98-B | % | 18 |
| Brittle temperature | ISO 812 | C | -40 |

Innovaprene® P 60 chemical compatibility chart is available on www.innovapure.com or call Innovapure sales representative.



Important

It is the user's responsibility to ensure the suitability and safety of Suzhou Innovapure Co., Ltd. products for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.