

Bio-Sil® Precision Tubing

for Medical Device Manufacturers

What is Bio-Sil® Precision?

Bio-Sil® Precision silicone tubing has been uniquely formulated by the material experts at Saint-Gobain Medical, and was developed specifically for medical pumping applications. Bio-Sil® products are the result of decades of material science expertise and state-of-the-art manufacturing processes.

Why do I need Bio-Sil® Precision?

As part of our family of silicone products, Bio-Sil® Precision has been formulated to optimize the pumping characteristics of silicone, while providing a level of repeatability and consistency that is not found in other pump tubings. The material formulation is tightly controlled to reduce variation in the physical properties of the material. Produced using the Compass Technology® extrusion process, Bio-Sil® Precision provides best in class tolerance control on both material physical properties and tubing dimensions. The result is greater consistency in the product and less variation in its performance in your application.

How do I get more information or request a quote?

Contact us at (800)236-7600 or [medical.saint-gobain.com/contact-us](https://www.medical.saint-gobain.com/contact-us)

Features / Benefits

- Sterilizable
- Meets USP <88>, Class VI Criteria
- Consistent material performance
- Durable

Typical Applications

- Infusion Pumps

Important: “This Saint-Gobain product is a medical component intended for processing or use in the manufacture or assembly of medical devices before the finished medical device is packaged/labeled; it is intended to be included as part of the finished, packaged, and labeled device [21CFR820.3(c)]. Please refer to our Medical Products Disclaimer at: www.medical.saint-gobain.com/resources/regulatory-and-quality/medical-product-disclaimer

Caution: For manufacturing, processing or repacking.”



Bio-Sil[®] Silicone Tubing

FORMULATION Precision TECHNICAL DATA

Typical Physical Properties

| Property | ASTM Method | Value or Rating |
|---|---------------|-----------------|
| Durometer Hardness (Shore A) | D2240 | 53 |
| Tensile Strength, psi | D412 | 1500 |
| Ultimate Elongation, % | D412 | 750 |
| Modulus @ 100% Elongation, psi | D412 | 230 |
| Tear Strength, ppi | D1004 | 190 |
| Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hours | D395 Method B | |
| Brittle Temperature, °F (°C) | D746 | |
| Specific Gravity | D792 | |
| Water Absorption, % 24 hrs at 73°F (23°C) | D570 | |
| Maximum Recommended Operating Temperature °F (°C) | - | |

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Product Characteristics

| | |
|----------------------------|----------------|
| USP <88>, Plastic Class VI | Meets criteria |
|----------------------------|----------------|

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To find out more about how Saint-Gobain Medical can meet your medical manufacturing needs, call (800) 236-7600 or medical.saint-gobain.com/contact-us.

Bio-Sil[®] and Compass[®] Technology are registered trademarks.



IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain warrants this product to be free of defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof.

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