

# 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 Performance Plastics, 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 drop us an email at [medical@saint-gobain.com](mailto:medical@saint-gobain.com). You can also contact your district sales manager or find us on the web at: [www.medical.saint-gobain.com](http://www.medical.saint-gobain.com).

### 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](http://www.medical.saint-gobain.com/resources/regulatory-and-quality/medical-product-disclaimer)

**Caution:** For manufacturing, processing or repacking.”



# Bio-Sil<sup>®</sup> 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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QUOTATIONS FOR TUBING AND  
PROFILES AVAILABLE UPON REQUEST

**Saint-Gobain**  
3910 Terry Diane Street  
Beaverton, MI 48612  
Phone: (989)435-9533

To find out more about how Saint-Gobain Performance Plastics can meet your medical manufacturing needs, call (800) 236-7600 or email [medical@saint-gobain.com](mailto:medical@saint-gobain.com).

Bio-Sil<sup>®</sup> and Compass<sup>®</sup> Technology are registered trademarks.



**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain Performance Plastics 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 Performance Plastics 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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