

SAINT-GOBAIN MEDICAL

# BIO-SIL® 1360

## Tubing for Medical Device Manufacturers

Bio-Sil® 1360 platinum-cured silicone tubing is engineered for high-purity fluid transfer in demanding medical applications. With a Shore A hardness of 60, it offers enhanced flexibility while maintaining excellent strength and durability. Designed for peristaltic pump performance and long-term reliability, Bio-Sil 1360 is ideal for applications requiring biocompatibility, sterilization compatibility, and consistent mechanical properties.

### BIOCOMPATIBILITY CHARACTERISTICS

Bio-Sil 1360 is manufactured from raw materials that meet the requirements of USP<88> and can be classified as USP Plastic Class VI. The finished tubing has been tested and validated to meet ISO 10993 standards for genotoxicity (ISO 10993-3), hemolysis (ISO 10993-4), and cytotoxicity (ISO 10993-5). These tests were performed on tubing sterilized via Ethylene Oxide (EtO), gamma irradiation (25-40 kGy), and steam autoclaving at 121°C, ensuring compatibility with common sterilization methods.

### IDEAL CHOICE FOR MEDICAL APPLICATIONS

The physical and chemical characteristics of Bio-Sil 1360 tubing—particularly its 60 Shore A durometer, platinum-cured formulation, and ISO 10993 testings—make it an excellent choice for a wide range of medical applications. Its flexibility and durability support consistent performance in various applications.

Manufactured in France, Bio-Sil 1360 is ideally positioned to support the European medical device market with localized production and supply chain advantages.

Product recommendations are based on a combination of industry knowledge, material science expertise, and/or material testing data. Contact Saint-Gobain Medical for further tubing recommendation information.



BIO-SIL®



Bio-Sil® 1360

### FEATURES/BENEFITS

- Tubing has met ISO 10993-3/4/5 criteria
- Bio-Sil 1360 raw material has met USP <88> Class VI criteria
- Compatible with EtO, gamma (25-40 kGy), and steam sterilization
- Designed and manufactured without the intentional addition of animal-derived materials
- Custom sizes available

### TYPICAL APPLICATIONS

- Dialysis and blood filtration
- Drug delivery systems
- Infusion and IV therapy
- Peristaltic pump systems
- Respiratory and anesthesia equipment



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## BIO-SIL® 1360 TUBING MANUFACTURED SIZES

Part Number	I.D.		O.D.		Wall Thickness		Length	
	inches	mm	inches	mm	inches	mm	feet	m
BS1360-0076-0165	0.03	0.76	0.065	1.65	0.018	0.44	49.2	15
BS1360-0079-0239	0.031	0.79	0.094	2.39	0.032	0.80	49.2	15
BS1360-0102-0216	0.04	1.02	0.085	2.16	0.023	0.57	49.2	15
BS1360-0147-0196	0.058	1.47	0.077	1.96	0.010	0.24	49.2	15
BS1360-0160-0241	0.063	1.60	0.095	2.41	0.016	0.41	49.2	15
BS1360-0160-0318	0.063	1.60	0.125	3.18	0.031	0.79	49.2	15
BS1360-0198-0318	0.078	1.98	0.125	3.18	0.024	0.60	49.2	15
BS1360-0239-0396	0.094	2.39	0.156	3.96	0.031	0.79	49.2	15
BS1360-0264-0488	0.104	2.64	0.192	4.88	0.044	1.12	49.2	15
BS1360-0318-0478	0.125	3.18	0.188	4.78	0.032	0.80	49.2	15
BS1360-0318-0635	0.125	3.18	0.25	6.35	0.063	1.59	49.2	15
BS1360-0335-0465	0.132	3.35	0.183	4.65	0.026	0.65	49.2	15
BS1360-0396-0556	0.156	3.96	0.219	5.56	0.032	0.80	49.2	15
BS1360-0478-0635	0.188	4.78	0.25	6.35	0.031	0.79	49.2	15
BS1360-0478-0795	0.188	4.78	0.313	7.95	0.063	1.59	49.2	15
BS1360-0478-0953	0.188	4.78	0.375	9.53	0.094	2.37	49.2	15
BS1360-0478-1113	0.188	4.78	0.438	11.13	0.125	3.18	49.2	15
BS1360-0635-0795	0.25	6.35	0.313	7.95	0.032	0.80	49.2	15
BS1360-0635-0953	0.25	6.35	0.375	9.53	0.063	1.59	49.2	15
BS1360-0635-1113	0.25	6.35	0.438	11.13	0.094	2.39	49.2	15
BS1360-0635-1270	0.25	6.35	0.5	12.70	0.125	3.18	49.2	15

Custom hardness and dimensions available.

## BIO-SIL® 1360 TUBING STERILIZATION METHODS

Physical properties are not significantly impacted by the following sterilization methods:

- Autoclavable (30 min at 250°F/121°C)
- EtO (Ethylene Oxide)
- Gamma irradiation (up to 4 Mrad (40 kGy))

## BIO-SIL® 1360 TUBING TYPICAL PHYSICAL PROPERTIES\*

Property	ISO	Value or Rating
Durometer Hardness, Shore A (+/-3)	48-4	63
Color	Translucent	
Tensile Strength, psi (MPa)	37	1389 (9,58)
Ultimate Elongation, 100%	37	896
Tear Resistance, Die B, ppi (kN/m)	34-1	155 (27,16)
Specific Gravity	1183	1.15

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

## BIO-SIL® 1360 TUBING CHARACTERISTICS\*\*

Method Description	Reference Standard	Result
USP Class VI	USP <88>	Meets Criteria
Genotoxicity (Ames)	ISO 10993-3	Meets Criteria
Hemolysis (direct and indirect)	ISO 10993-4	Meets Criteria
Cytotoxicity (L929)	ISO 10993-5	Meets Criteria

\*\*After gamma, steam and EtO sterilization.

NOTE: The information provided pertains only to product manufactured at the Saint-Gobain Saint-Quentin-Fallavier facility (France). Saint-Gobain Performance Plastics France ("Saint-Gobain") products that are used as components in the manufacture of medical devices (as defined by Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices) are sold by Saint-Gobain only and exclusively to medical devices manufacturers for use in the manufacture, assembly or distribution of their medical devices. This product is not a finished medical device and is not intended for direct use by end users, consumers or patients. Medical device manufacturers, to whom Saint-Gobain acts as a supplier or a subcontractor for finished products, are solely responsible for determining whether their finished products qualify as a medical device and for ensuring compliance with the appropriate certifications and registrations, or other regulatory requirements relevant to their intended markets.

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