

SAINT-GOBAIN MEDICAL

BIO-SIL[®]

1480

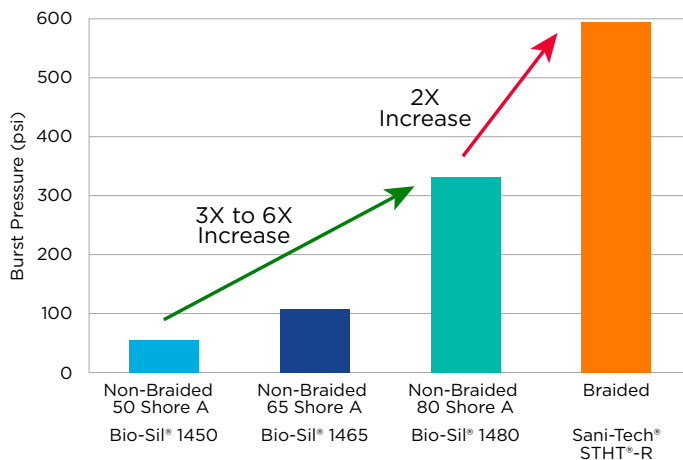
Tubing for Medical Device Manufacturers

Bio-Sil[®] 1480 silicone tubing is engineered for medical systems where pressure performance, vacuum resilience, and flexible routing are critical. Its high burst strength and strong collapse resistance remove the need for braid reinforcement in many designs, which simplifies assembly and maintains clarity for visual inspection.

BUILT FOR PRESSURE & VACUUM STABILITY

Bio-Sil 1480 tubing maintains lumen integrity across a wide range of operating conditions. It withstands elevated internal pressure and deep vacuum without deformation, making it ideal for devices with fluctuating flow, intermittent suction, or closed-loop control. Unlike braid-reinforced constructions that limit visibility, Bio-Sil 1480 tubing remains highly transparent to support visual confirmation of fluid activity.

Bio-Sil[®] 1480 Bridges the Gap



Burst pressures for tubing with ID of 0.25" and an OD of 0.50". Samples tested per ASTM D1599.

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[®]

FEATURES/BENEFITS

- High burst strength without braid reinforcement
- Maintains structure under vacuum conditions
- Flexible and kink-resistant for tight device geometries
- Meets ISO 10993-3, -4, and -5 testing criteria

TYPICAL APPLICATIONS

- Drainage and evacuation tubing in minimally invasive devices
- Pneumatic control lines for valve or actuator-driven components
- Pressure lines in fluid control assemblies and closed-loop devices
- Sample or waste tubing in IVD platforms and lab analyzers
- Vacuum and suction lines in surgical and diagnostic systems

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BIO-SIL® 1480 TUBING* MANUFACTURED SIZES

Part Number	I.D.		O.D.		Wall Thickness		Burst Pressure		Minimum Bending Radius	
	inches	mm	inches	mm	inches	mm	psi	bar	inches	mm
BS1480-031-1	0.031	0.8	0.094	2.4	0.031	0.8	510	35.2	0.21	5.3
BS1480-031-2	0.031	0.8	0.156	4	0.063	1.6	636	43.8	0.34	8.6
BS1480-063-2	0.063	1.6	0.188	4.8	0.063	1.6	504	34.7	0.28	7.1
BS1480-063-3	0.063	1.6	0.25	6.4	0.094	2.4	593	40.9	0.24	6.1
BS1480-125-2	0.125	3.2	0.25	6.4	0.063	1.6	319	22	0.22	5.6
BS1480-125-3	0.125	3.2	0.313	8	0.094	2.4	431	29.7	0.15	3.8
BS1480-125-4	0.125	3.2	0.375	9.5	0.125	3.2	506	34.9	0.23	5.8
BS1480-188-2	0.188	4.8	0.313	8	0.063	1.6	257	17.7	0.43	10.9
BS1480-188-3	0.188	4.8	0.375	9.5	0.094	2.4	353	24.3	0.34	8.6
BS1480-188-4	0.188	4.8	0.438	11.1	0.125	3.2	421	29	0.28	7.1
BS1480-250-2	0.25	6.4	0.375	9.5	0.063	1.6	201	13.9	0.7	17.8
BS1480-250-3	0.25	6.4	0.438	11.1	0.094	2.4	281	19.4	0.54	13.7
BS1480-250-4	0.25	6.4	0.5	12.7	0.125	3.2	334	23	0.42	10.7
BS1480-313-3	0.313	8	0.5	12.7	0.094	2.4	216	14.9	0.87	22.1
BS1480-313-4	0.313	8	0.563	14.3	0.125	3.2	294	20.3	0.66	16.8
BS1480-375-2	0.375	9.5	0.5	12.7	0.063	1.6	140	9.7	1.38	35.1
BS1480-375-3	0.375	9.5	0.563	14.3	0.094	2.4	208	14.3	1.08	27.4
BS1480-375-4	0.375	9.5	0.625	15.9	0.125	3.2	266	18.3	0.88	22.4
BS1480-500-3	0.5	12.7	0.688	17.5	0.094	2.4	163	11.2	1.72	43.7
BS1480-500-4	0.5	12.7	0.75	19.1	0.125	3.2	204	14.1	1.39	35.3
BS1480-500-5	0.5	12.7	0.875	22.2	0.188	4.8	282	19.4	1.26	32
BS1480-625-4	0.625	15.9	0.875	22.2	0.125	3.2	171	11.8	2.15	54.6
BS1480-625-5	0.625	15.9	1	25.4	0.188	4.8	230	15.9	1.75	44.5
BS1480-750-4	0.75	19.1	1	25.4	0.125	3.2	128	8.8	2.93	74.4
BS1480-750-5	0.75	19.1	1.125	28.6	0.188	4.8	173	11.9	2.45	62.2
BS1480-875-5	0.875	22.2	1.25	31.8	0.188	4.8	180	12.4	3.1	78.7
BS1480-1000-5	1	25.4	1.375	34.9	0.188	4.8	146	10.1	3.67	93.2

* Standard coil length is 25 feet. 50 foot and 100 foot coils are available. Burst pressure testing follows ASTM D1599 using water as the test media, and all part numbers are physically tested for burst pressure, bend radius, and vacuum resistance with no estimated or calculated values.

BIO-SIL® 1480 TUBING CHARACTERISTICS

Raw material has met USP <88>, Biological Test for Plastics, Class VI.

Bio-Sil 1480 tubing has met the following test requirements:

- Genotoxicity test requirements as described in ISO 10993-3
- Hemolysis test requirements as described in ISO 10993-4
- Cytotoxicity test requirements as described in ISO 10993-5

NOTE: The information provided pertains only to product manufactured at the Saint-Gobain Beaverton, Michigan facility. Saint-Gobain Performance Plastics Corporation's ("Saint-Gobain") medical components are sold by Saint-Gobain only to Medical Device Manufacturers ("MDM") or their designated OEM for use in the manufacture, assembly or distribution of their medical devices (as defined by the FDA). In addition, Saint-Gobain may at the request of an MDM act as an OEM to contract manufacture a finished device for the MDM. Every MDM is solely responsible for determining whether said purchased medical components or finished products are a medical device, and to the extent they are, such MDMs are obligated to comply with all applicable laws and regulations related to proper country-specific clearances, certification and/or registration authorizing the sale of such medical devices and Saint-Gobain has no obligations with respect to any factors stated herein above.

This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document is not a Product warranty or guaranty. Tests conducted by Saint-Gobain are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values.

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