



BIO-SIL® ULTRA 1050



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Bio-Sil® Ultra 1050 is a medical-grade translucent silicone elastomer tubing available directly from Saint-Gobain Performance Plastics. This product is ideally suited for hospital applications where strength, durability, long-life and non-reactivity with body fluids and skin are of primary importance.

Inner Surface Topography

The inner surface of Bio-Sil® Ultra 1050 is designed to reduce the risk of particle entrapment and microscopic build-up during fluid transfer. Analysis of the inner surface of Bio-Sil® Ultra 1050 shows up to a 3x improvement in smoothness over competitive products.

A smoother inner surface improves fluid flow characteristics by reducing surface area. Even in repeat use applications Bio-Sil Ultra 1050 may prevent residue build-up aiding in complete cleaning and sterilization.

Biocompatibility

Bio-Sil® is a highly biocompatible silicone material designed specifically for medical applications. Bio-Sil® silicone tubing is manufactured and tested to UPS XXIV Class VI criteria and is entirely non-toxic, non-hemolytic and non-pyrogenic. Bio-Sil® Ultra 1050 meets or exceeds ISO 10993 guidelines for contact with blood, other bodily fluids and tissues for up to 29 days.

*Medically Pure
Platinum-Cured
Silicone Tubing with
an Ultra-Smooth
Inner Surface*

Features/Benefits

- Designed to meet specific needs of the medical customer
- Ultra-smooth inner bore reduces particle entrapment potential
- Excellent fluid flow characteristics
- Minimal extractables help maintain fluid integrity
- JIT shipments available
- Complete inventory of standard and metric sizes
- Custom sizes and configurations available

Typical Applications

- Peristaltic Pumps
- Surgical Drains
- Catheters
- Feeding Tubes
- Drug Delivery
- Blood Analyzers



Bio-Sil® Ultra 1050 Sizes

Catalog Number	I.D. (inches)		O.D. (inches)		Wall (inches)		Length (feet)	I.D. (mm)	O.D. (mm)	Wall (mm)
BSL001	1/32	0.031	3/32	0.094	1/32	0.031	50'	0.794	2.381	0.794
BSL002	1/16	0.063	1/8	0.125	1/32	0.031	50'	1.588	3.175	0.794
BSL003	1/16	0.063	3/16	0.188	1/16	0.063	50'	1.588	4.763	1.588
BSL004	3/32	0.094	5/32	0.156	1/32	0.031	50'	2.381	3.969	0.794
BSL005	3/32	0.094	7/32	0.219	1/16	0.063	50'	2.381	5.556	1.588
BSL006	1/8	0.125	3/16	0.188	1/32	0.031	50'	3.175	4.763	0.794
BSL007	1/8	0.125	1/4	0.250	1/16	0.063	50'	3.175	6.350	1.588
BSL009	5/32	0.156	7/32	0.219	1/32	0.031	50'	3.969	5.556	0.794
BSL011	3/16	0.188	1/4	0.250	1/32	0.031	50'	4.763	6.350	0.794
BSL012	3/16	0.188	5/16	0.313	1/16	0.063	50'	4.763	7.938	1.588
BSL013	3/16	0.188	3/8	0.375	3/32	0.094	50'	4.763	9.525	2.381
BSL014	3/16	0.188	7/16	0.438	1/8	0.125	50'	4.763	11.113	3.175
BSL016	1/4	0.250	5/16	0.313	1/32	0.031	50'	6.350	7.938	0.794
BSL017	1/4	0.250	3/8	0.375	1/16	0.063	50'	6.350	9.525	1.588
BSL018	1/4	0.250	7/16	0.438	3/32	0.094	50'	6.350	11.113	2.381
BSL019	1/4	0.250	1/2	0.500	1/8	0.125	50'	6.350	12.700	3.175
BSL022	5/16	0.313	7/16	0.438	1/16	0.063	50'	7.938	11.113	1.588
BSL023	5/16	0.313	1/2	0.500	3/32	0.094	50'	7.938	12.700	2.381
BSL027	3/8	0.375	1/2	0.500	1/16	0.063	50'	9.525	12.700	1.588
BSL028	3/8	0.375	9/16	0.563	3/32	0.094	50'	9.525	14.288	2.381
BSL029	3/8	0.375	5/8	0.625	1/8	0.125	50'	9.525	15.875	3.175
BSL032	7/16	0.438	9/16	0.563	1/16	0.063	50'	11.113	14.288	1.588
BSL033	7/16	0.438	5/8	0.625	3/32	0.094	50'	11.113	15.875	2.381
BSL036	1/2	0.500	5/8	0.625	1/16	0.063	50'	12.700	15.875	1.588
BSL037	1/2	0.500	11/16	0.688	3/32	0.094	50'	12.700	17.463	2.381
BSL038	1/2	0.500	3/4	0.750	1/8	0.125	50'	12.700	19.050	3.175
BSL045	5/8	0.625	13/16	0.813	3/32	0.094	50'	15.875	20.638	2.381
BSL046	5/8	0.625	7/8	0.875	1/8	0.125	50'	15.875	22.225	3.175
BSL053	3/4	0.750	1	1.000	1/8	0.125	50'	19.050	25.400	3.175
BSL062	1	1.000	1-1/4	1.250	1/8	0.125	50'	25.400	31.750	3.175
BSL069	1-1/4	1.250	1-1/2	1.500	1/8	0.125	50'	31.750	38.100	3.175
BSL074	1-1/2	1.500	2	2.000	1/4	0.250	50'	38.100	50.800	6.350

Bio-Sil® Ultra 1050 Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness	D-2240-91	50
Color	—	Translucent
Tensile Strength, psi, (Mpa)	D412-92	1450 psi, 10 Mpa
Ultimate Elongation, %	D412-92	770
Tear Resistance, Die B, ppi	D-624	200
Specific Gravity	D-792-91	1.14
Tensile Modulus @200 % Elongation, psi	D-412-92	280

The values found in this chart are typical values when post cured for 2 hours @ 177C (350° F). For actual minimum values please contact Saint-Gobain Performance Plastics, Beaverton, MI and specify part number.

BIO-SIL® ULTRA 1050 TUBING IS NOT INTENDED FOR USE AS IMPLANT MATERIAL.

Bio-Sil® is a registered trademark.

Saint-Gobain Performance Plastics

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IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Health Markets Business tubing 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.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from 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. User assumes all other risk, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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