



1450 Silicone Tubing

Medical Products

Medically Pure Platinum-Cured Silicone Tubing

Features/Benefits

- Designed to meet specific needs of medical customers
- Ultra-low extractables
- Fully sterilizable
- Odor free
- Meets all USP Class VI, FDA, and ISO Criteria

Typical Applications

- Peristaltic pumps
- Drug delivery
- Blood analysis

Bio-Sil® 1450 Silicone Tubing

Bio-Sil® 1450 platinum-cured silicone tubing is the next generation in ultra-pure silicone tubing for the medical market. This high-performance pump tube is available in 50 Shore A durometer and is ideally suited for medical applications where strength, durability, pump performance and biocompatibility are of primary importance.

Characteristics

Bio-Sil® 1450 is manufactured and packaged in a certified clean room from the finest grade silicone materials. This formulation features low extractables, excellent pump life, and imparts no taste or odors.

Biocompatibility

Bio-Sil® is a highly biocompatible silicone material designed specifically for medical applications. Bio-Sil® silicone tubing is manufactured and tested to USP Class VI criteria and is entirely non-toxic, non-hemolytic and non-pyrogenic.

Bio-Sil® 1450 Options

- Custom laylines
- Gamma irradiated
- Bulk spool packaging
- Custom sizes available

Sterilization Methods

- Autoclavable
- Radiation – up to 5.0 Mrad (50 Kilogray)
- Gas – Ethylene Oxide

Bio-Sil® 1450 Sizes

Part Number	ID (in)	OD (in)	Wall (in)	Length (ft)	ID (mm)	OD (mm)	Wall (mm)
BS1450-012-025	0.012	0.025	0.007	25'	0.305	0.635	0.178
BS1450-020-037	0.020	0.037	0.009	25'	0.508	0.940	0.229
BS1450-020-083	0.020	0.083	0.031	50'	0.508	2.108	0.794
BS1450-025-047	0.025	0.047	0.011	50'	0.635	1.194	0.279
BS1450-030-065	0.030	0.065	0.018	50'	0.762	1.651	0.457
BS1450-031-094	0.031	0.094	0.031	50'	0.794	2.381	0.794
BS1450-040-085	0.040	0.085	0.023	50'	1.016	2.159	0.584
BS1450-058-077	0.058	0.077	0.010	50'	1.473	1.956	0.254
BS1450-063-095	0.063	0.095	0.017	50'	1.588	2.413	0.432
BS1450-063-125	0.063	0.125	0.031	50'	1.588	3.175	0.794
BS1450-078-125	0.078	0.125	0.023	50'	1.981	3.175	0.584
BS1450-094-156	0.094	0.156	0.031	50'	2.381	3.969	0.794
BS1450-104-192	0.104	0.192	0.044	50'	2.642	4.877	2.642
BS1450-125-188	0.125	0.188	0.031	50'	3.175	4.763	0.794
BS1450-125-250	0.125	0.250	0.063	50'	3.175	6.350	1.588
BS1450-132-183	0.132	0.183	0.026	50'	3.353	4.648	0.660
BS1450-156-219	0.156	0.219	0.031	50'	3.969	5.556	0.794
BS1450-188-250	0.188	0.250	0.031	50'	4.763	6.350	0.794
BS1450-188-313	0.188	0.313	0.063	50'	4.763	7.938	1.588
BS1450-188-375	0.188	0.375	0.094	50'	4.763	9.525	2.381
BS1450-188-438	0.188	0.438	0.125	50'	4.763	11.113	3.175
BS1450-250-313	0.250	0.313	0.031	50'	6.350	7.938	0.794
BS1450-250-375	0.250	0.375	0.063	50'	6.350	9.525	1.588
BS1450-250-438	0.250	0.438	0.094	50'	6.350	11.113	2.381
BS1450-250-500	0.250	0.500	0.125	50'	6.350	12.700	3.175
BS1450-313-438	0.313	0.438	0.063	50'	7.938	11.113	1.588
BS1450-313-500	0.313	0.500	0.094	50'	7.938	12.700	2.381
BS1450-313-563	0.313	0.563	0.125	50'	7.938	14.300	3.175
BS1450-375-500	0.375	0.500	0.063	50'	9.525	12.700	1.588
BS1450-375-563	0.375	0.563	0.094	50'	9.525	14.288	2.381
BS1450-375-625	0.375	0.625	0.125	50'	9.525	15.875	3.175
BS1450-500-625	0.500	0.625	0.063	50'	12.700	15.875	1.588
BS1450-500-688	0.500	0.688	0.094	25'	12.700	17.463	2.381
BS1450-500-750	0.500	0.750	0.125	25'	12.700	19.050	3.175
BS1450-625-875	0.625	0.875	0.125	25'	15.875	22.225	3.175
BS1450-750-100	0.750	0.100	0.125	10'	19.050	25.400	3.175
BS1450-1000-1250	1.000	1.250	0.125	10'	25.400	31.750	3.175

Bio-Sil® 1450 Physical Properties

Property	ASTM Method	Value or Rating (metric)
Durometer Hardness, Shore A	D2240	50
Color	-	Translucent
Tensile Strength, psi (Mpa)	D412	1293 (8.91 MPa)
Ultimate Elongation, 100%	D412	719
Tear Resistance, Die B, ppi (Kn/M)	D624	185 (50.1 Kn/M)
Specific Gravity	D792	1.14
Tensile Modulus at 200% Elongation, psi (MPa)	D412	200 (1.38 MPa)

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.

Bio-Sil® is a registered trademark.



Saint-Gobain Performance Plastics

700 Warner Blvd.
Taunton, MA 02780
Tel: (800) 722-7106
Tel: (508) 823-7701
Fax: (508) 823-1438

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics 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.

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