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# TYGON® Beverage Tubing



The most widely specified clear, flexible tubing, Tygon® Beverage Tubing is frequently chosen for its taste- and odor-free characteristics.

## Versatile, High-Performance Tubing

Tygon® Beverage Tubing is specially formulated for transferring a wide variety of beverages including soft drinks, fruit juices, flavored teas and bottled water. In virtually all cases, Tygon® Beverage Tubing will not affect the taste or odor of product transferred through it, while its excellent non-wetting properties facilitate complete drainage and permit simple flush-cleaning.

Many of the unique properties inherent to Tygon® Beverage Tubing also apply to a wide variety of complex applications, ranging from fine cosmetic production to the dispensing of water-based printing inks found in the publishing industry. The versatility and proven performance of Tygon® Beverage Tubing have made it today's most widely specified clear, flexible plastic tubing.

## Lightweight and Flexible

Light in weight and easy to handle, Tygon® Beverage Tubing can be put into service quickly. It readily bends to accommodate abrupt corners and obstructions, requiring a minimum of couplings and fittings.

Its flexibility can save up to one-third the footage and much of the labor required to install rigid stainless steel or plastic piping.

## Clear as Glass

The glass-like clarity of Tygon® Beverage Tubing allows the user to see product flow through it so visual monitoring of flow is easy. This is particularly helpful in controlling or adjusting flow during processing.

## Meets FDA, NSF and 3-A Criteria

Non-toxic, taste-free and odor-free, Tygon® Beverage Tubing meets applicable regulatory standards for contact with food products.

Tygon® Beverage Tubing is NSF listed under Standard 51. This standard covers plastic materials and components for use in food and beverage processing and dispensing equipment. It also meets FDA 21 CFR, 175.300 criteria and 3-A Plastics Standard Criteria for use in handling foods and beverages.

## Different Sizes Available

Tygon® Beverage Tubing is available in sizes ranging from 1/16" I.D. to 3-1/2" O.D. – all through our nationwide network of general plastics distributors. Leave it to Saint-Gobain Performance Plastics to provide that kind of convenience for you to select the right tubing for your application.

## FORMULATION B-44-3

## Most Widely Specified Clear, Flexible Tubing

### Features/Benefits

- Clear as glass for easy visual monitoring of flow
- Lightweight and flexible for easy, quick installation
- Broad chemical resistance
- Non-wetting properties allow easy cleaning and complete drainage
- Meets FDA, 3-A and NSF criteria

### Typical Applications

- Chemical processing
- Appliance
- Food and beverage
- Metal finishing
- Photoprocessing
- Printing and publishing
- Pharmaceutical
- Cosmetic
- Garden and recreational equipment

## Tygon® B-44-3 Tubing Inventoried Sizes

Saint-Gobain Part Number	I.D. (inches)	O.D. (inches)	Wall Thickness (inches)	Length (feet)	Minimum Bend Radius (inches)	Max. Working Pressure at 73°F (psi)*	Vacuum Rating In. of Mercury at 73°F
AAB00002	1/16	1/8	1/32	50	1/4	70	29.9
AAB02002	1/16	1/8	1/32	100	1/4	70	29.9
AAB04002	1/16	1/8	1/32	500	1/4	70	29.9
AAB00003	1/16	3/16	1/16	50	1/8	108	29.9
AAB00004	3/32	5/32	1/32	50	3/8	47	29.9
AAB00005	3/32	7/32	1/16	50	1/4	78	29.9
AAB00006	1/8	3/16	1/32	50	1/2	45	25.0
AAB02006	1/8	3/16	1/32	100	1/2	45	25.0
AAB00007	1/8	1/4	1/16	50	3/8	62	29.9
AAB02007	1/8	1/4	1/16	100	3/8	62	29.9
AAB04007	1/8	1/4	1/16	500	3/8	62	29.9
AAB00009	5/32	7/32	1/32	50	3/4	31	16.0
AAB00010	5/32	9/32	1/16	50	1/2	52	29.9
AAB00011	3/16	1/4	1/32	50	1	34	11.0
AAB00012	3/16	5/16	1/16	50	5/8	45	29.9
AAB00013	3/16	3/8	3/32	50	1/2	62	29.9
AAB00014	3/16	7/16	1/8	50	3/8	78	29.9
AAB00016	1/4	5/16	1/32	50	1-5/8	28	6.0
AAB00017	1/4	3/8	1/16	50	1	36	25.0
AAB00018	1/4	7/16	3/32	50	3/4	49	29.9
AAB00019	1/4	1/2	1/8	50	5/8	62	29.9
AAB00022	5/16	7/16	1/16	50	1-3/8	30	16.0
AAB00023	5/16	1/2	3/32	50	1	41	29.9
AAB00024	5/16	9/16	1/8	50	7/8	52	29.9
AAB00027	3/8	1/2	1/16	50	1-3/4	26	11.0
AAB00028	3/8	9/16	3/32	50	1-3/8	36	25.0
AAB00029	3/8	5/8	1/8	50	1-1/8	45	29.9
AAB00034	7/16	11/16	1/8	50	1-3/8	39	29.9
AAB00036	1/2	5/8	1/16	50	2-7/8	20	6.0
AAB00037	1/2	11/16	3/32	50	2-1/8	28	14.0
AAB00038	1/2	3/4	1/8	50	1-3/4	36	25.0
AAB00046	5/8	7/8	1/8	50	2-3/8	30	16.0
AAB00051	11/16	15/16	1/8	50	2-7/8	28	13.0
AAB00053	3/4	1	1/8	50	3-1/4	26	11.0
AAB00059	7/8	1-1/8	1/8	50	4-1/8	23	8.0
AAB00062	1	1-1/4	1/8	50	5-1/8	20	6.0
AAB00064	1	1-3/8	3/16	50	3-3/4	28	14.0
AAB00065	1	1-1/2	1/4	50	3	36	25.0
AAB00069	1-1/4	1-1/2	1/8	50	7-3/8	17	4.0
AAB00070	1-1/4	1-5/8	3/16	50	5-1/2	24	9.0
AAB00071	1-1/4	1-3/4	1/4	50	4-3/8	30	16.0
AAB00073	1-1/2	1-7/8	3/16	50	7-1/4	20	6.0
AAB00074	1-1/2	2	1/4	50	5-7/8	26	11.0
AAB00076	1-3/4	2-1/4	1/4	50	7-1/2	23	8.0
AAB00078	2	2-1/2	1/4	50	9-3/8	20	6.0
AAB05080	2	3	1/2	20	5-1/2	36	25.0
AAB05081	2-1/4	2-3/4	1/4	20	11-1/4	19	5.0

\*Working pressures are calculated at a 1.5 ratio relative to burst pressure using ASTM D1599.

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

## Tygon® B-44-3 Tubing Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness Shore A, 15 Sec	D2240-03	63
Color	—	Clear
Tensile Strength psi (MPa)	D412-98	2,300 (15.8)
Ultimate Elongation, %	D412-98	410
Tear Resistance lb-f/inch (kN/m)	D1004-03	180 (32)
Specific Gravity	D792-00	1.20
Water Absorption, % 24 hrs. @ 23°C	D570-98	0.13
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395-03 Method B	65
Brittleness By Impact Temp., °F (°C)	D746-98	-49 (-45)
Maximum Recommended Operating Temp., °F (°C)	—	165 (74)
Dielectric Strength, w/mil (kV/mm)	D149-97	518 (20.4)
Tensile Modulus, @ 200% Elongation, psi (MPa)	D412-98	1,760 (12.1)
Tensile Set, %	D412-98	81

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.

**TYGON® BEVERAGE TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL**

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**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.

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, if any, 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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