

Tygon® B-44-4X Tubing

PHTHALATE-FREE FLEXIBLE TUBING FOR FOOD AND BEVERAGE DISPENSING



Preferred Tubing of the Food Industry

Producers of food, milk and dairy products insist upon Tygon® B-44-4X tubing for dependable performance in countless filling, draining, transfer and processing applications. Its smooth, non-porous bore inhibits particle entrapment, promoting a sanitary fluid path by minimizing potential for bacterial growth. It has outstanding resistance to harsh alkaline cleaners and is equally unaffected by commonly used sanitizers.

Lightweight, Flexible and Clear

Light in weight and easy to handle, Tygon® B-44-4X 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. Its glass-like clarity 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 process.

Typical Applications*

- Aseptic filling
- Condiment dispensing
- Dairy processing
- Vitamin and flavor concentrate systems
- Soft-serve dispensing

* For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance.

Features and Benefits

- Smooth, non-porous bore will not trap particulates or promote bacterial growth
- Resistant to harsh alkaline cleaners* and sanitizers
- Excellent alternative to rigid piping systems
- Contains no BPA or phthalates

Regulatory Compliance*

- Complies with applicable FDA Food Additive Regulations, NSF®-51, NSF®-61, 3-A, Japan Food Sanitation Law # 370/1959, REACH, and 1935/2004/EC for many foods and beverage applications
- Does not contain chemicals listed in California's Proposition 65
- EU 10/2011

SAINT-GOBAIN

SAINT-GOBAIN
INDUSTRIAL & CONSUMER SOLUTIONS

Making a material impact around the world.

Tygon® B-44-4X Tubing

Tygon® B-44-4X Tubing

Part Number	ID		OD		Min. Bend Radius		Max. Working Pressure		Vacuum Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	73°F (psi)	23°C (bar)	inHg at 73°F	mmHg at 23°C
AAA00001	1/32	0,80	3/32	2,38	1/8	3,18	100	6,9	29.9	760
AAA00002	1/16	1,59	1/8	3,18	1/4	6,35	60	4,1	29.9	760
AAA00003	1/16	1,59	3/16	4,76	1/8	3,18	100	6,9	29.9	760
AAA00004	3/32	2,38	5/32	3,97	3/8	9,53	43	2,9	29.9	760
AAA00006	1/8	3,18	3/16	4,76	1/2	12,70	34	2,3	25.0	635
AAA00007	1/8	3,18	1/4	6,35	3/8	9,53	60	4,1	29.9	760
AAA00009	5/32	3,97	7/32	5,56	3/4	19,05	28	1,9	16.0	406
AAA00010	5/32	3,97	9/32	7,14	1/2	12,70	50	3,4	29.9	760
AAA00011	3/16	4,76	1/4	6,35	1	25,40	25	1,7	11.0	279
AAA00012	3/16	4,76	5/16	7,94	5/8	15,88	43	2,9	29.9	760
AAA00013	3/16	4,76	3/8	9,53	1/2	12,70	60	4,1	29.9	760
AAA00017	1/4	6,35	3/8	9,53	1	25,40	34	2,3	25.0	635
AAA00018	1/4	6,35	7/16	11,11	3/4	19,05	47	3,2	29.9	760
AAA00019	1/4	6,35	1/2	12,70	5/8	15,88	60	4,1	29.9	760
AAA00022	5/16	7,94	7/16	11,11	1-3/8	34,93	28	1,9	16.0	406
AAA00023	5/16	7,94	1/2	12,70	1	25,40	40	2,8	29.9	760
AAA00024	5/16	7,94	9/16	14,29	7/8	22,23	50	3,4	29.9	760
AAA00025	5/16	7,94	5/8	15,88	3/4	19,05	60	4,1	29.9	760
AAA00027	3/8	9,53	1/2	12,70	1-3/4	44,45	25	1,7	11.0	279
AAA00028	3/8	9,53	9/16	14,29	1-3/8	34,93	34	2,3	25.0	635
AAA00029	3/8	9,53	5/8	15,88	1-1/8	28,58	44	3,0	29.9	760
AAA00032	7/16	11,11	9/16	14,29	2-1/4	57,15	22	1,5	8.0	203
AAA00033	7/16	11,11	5/8	15,88	1-3/4	44,45	30	2,1	19.0	483
AAA00036	1/2	12,70	5/8	15,88	2-1/8	53,98	19	1,3	6.0	152
AAA00037	1/2	12,70	11/16	17,46	2-1/8	53,98	27	1,8	14.0	355
AAA00038	1/2	12,70	3/4	19,05	1-3/4	44,45	34	2,3	25.0	635
AAA00039	1/2	12,70	13/16	20,64	1-1/2	38,10	40	2,8	29.9	760
AAA00041	9/16	14,29	3/4	19,05	2-1/2	63,50	25	1,7	11.0	279
AAA00045	5/8	15,88	13/16	20,64	3	76,20	23	1,6	9.0	229
AAA00046	5/8	15,88	7/8	22,23	2-3/8	60,33	29	2,0	16.0	406
AAA00047	5/8	15,88	15/16	23,81	2	50,80	35	2,4	26.0	660
AAA00053	3/4	19,05	1	25,40	3-1/4	82,55	25	1,7	11.0	279
AAA00054	3/4	19,05	1-1/16	26,99	2-3/4	69,85	30	2,1	18.0	457
AAA00055	3/4	19,05	1-1/8	28,58	2-3/8	60,33	34	2,3	26.0	660
AAA00057	3/4	19,05	1-1/4	31,75	2	50,80	43	2,9	29.9	760
AAA00059	7/8	22,23	1-1/8	28,58	4-1/8	104,78	22	1,5	8.0	203
AAA00062	1	25,40	1-1/4	31,75	5-1/8	130,18	20	1,4	6.0	152
AAA00063	1	25,40	1-5/16	33,34	4-3/8	111,13	24	1,7	10.0	254
AAA00064	1	25,40	1-3/8	34,93	3-3/4	95,25	27	1,8	14.0	355
AAA00065	1	25,40	1-1/2	38,10	3	76,20	34	2,3	25.0	635
AAA00067	1-1/8	28,58	1-3/8	34,93	6-1/4	158,75	18	1,2	5.0	127
AAA00070	1-1/4	31,75	1-5/8	41,28	5-1/2	139,70	23	1,6	9.0	229
AAA00073	1-1/2	38,10	1-7/8	47,63	7-1/4	184,15	19	1,3	6.0	152
AAA00074	1-1/2	38,10	2	50,80	5-7/8	149,23	25	1,7	11.0	279
AAA00078	2	50,80	2-1/2	63,50	9-3/8	238,13	19	1,3	6.0	152
AAA00079	2	50,80	2-3/4	69,85	6-7/8	174,63	27	1,8	14.0	355
AAA00080	2	50,80	3	76,20	5-1/2	139,70	34	2,3	25.0	635
AAA05082	2-1/2	63,50	3	76,20	13-3/8	339,73	16	1,1	4.0	101
AAA05083	2-1/2	63,50	3-1/4	82,55	10	254,00	23	1,6	9.0	229
AAA05085	3	76,20	3-1/2	88,90	18	457,20	14	1,0	2.0	50
AAA05086	3	76,20	3-3/4	95,25	13-1/4	336,55	19	1,3	6.0	152
AAA05088	4	101,60	5	127,00	17	431,80	19	1,3	6.0	152
AAA05318	6	152,40	6-1/2	165,00	55-3/8	1406,53	8	0,5	0.5	13

Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

Tygon® B-44-4X tubing is available in large bore sizes up to 6" (152,40 mm) inside diameter.

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15s	D2240	66
Tensile Strength, psi (MPa)	D412	2,200 (15,2)
Ultimate Elongation, %	D412	390
Tear Resistance, lb-f/in (kN/m)	D1004	250 (43,8)
Specific Gravity	D792	1,21
Water Absorption, % at 73°F (23°C) for 24 hrs.	D570	0,22
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs.	D395 Method B	59
Brittleness by Impact Temp., °F (°C)	D746	-32 (-36)
Cold Temp. Flexibility @ 5°C increments, °F (°C)	D380	-49 (-45)
Maximum Recommended Operating Temp., °F (°C)	—	165 (74)
Tensile Stress @ 200% Elongation, psi (MPa)	D412	1,379 (9,5)
Tensile Set, at 75% Elongation	D412	57
Color	—	Clear

Unless otherwise noted, all tests were conducted at room temperature 73°F (23°C). Values shown were determined on 0.075" (1,905 mm) thick extruded strip or 0.075" (1,905 mm) thick molded ASTM plaques or molded ASTM durometer buttons.

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 pressure, 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-44-4X TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

www.ics.saint-gobain.com

SAINT-GOBAIN

Saint-Gobain
2664 Gilchrist Road
Akron, OH 44305
USA

Saint-Gobain
5 Rue du Dauphiné
Zone Industrielle de Chesnes
BP712 Saint-Quentin-Fallavier
Cedex, France 38297

Saint-Gobain
1476 Kun Yang Road
Minghang Economic &
Technological Development Zone
Shanghai, China 200245

NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

Tygon® is a registered trademark of Saint-Gobain Performance Plastics Corporation.

©2025 Saint-Gobain Performance Plastics