TYGON®
Trusted Performance



Tygon® B-44-5X IB Tubing



REINFORCED, FLEXIBLE TUBING FOR FOOD AND BEVERAGE DISPENSING

Safe to be in contact with food, all layers of Tygon® B-44-5X IB tubing are compliant with FDA food contact regulations. This tubing is designed specifically for food and beverage dispensing applications involving elevated pressure. Tygon® pressure tubing is clear, lightweight, flexible, smooth, has a non-porous bore to inhibit particle entrapment, outstanding resistance to harsh alkaline cleaners, and is unaffected by commonly used sanitizers. The added reinforcement withstands up to four times the pressure of non-reinforced tubing.

Flexibility for Every Twist and Turn

Lightweight and easy to handle, Tygon® B-44-5X IB tubing goes into service quickly. It readily bends around corners and obstructions, requiring minimal couplings and fittings. Its flexibility can save up to 30% the footage and much of the labor required to install rigid stainless steel, glass tubing or piping.

Reduces the Risk of Bacterial Contamination

Tygon® B-44-5X IB tubing's smooth non-porous inner bore resists particle entrapment and resultant bacterial growth. Its excellent non-wetting properties facilitate complete drainage and increase the overall effectiveness of cleaning, making it the ideal choice in food, beverage, dairy, and other bacterial-sensitive applications. Virtually taste and odor free.

Ideal for Use with ReSeal® Reusable Sanitary Fittings

By combining Tygon® B-44-5X IB tubing with ReSeal® Reusable Fittings, complete assemblies can be constructed, providing a contamination-free environment that maintains the purity of fluids being transferred. ReSeal assemblies are easy to install and can increase manufacturing efficiency by providing a fluid path that is able to be repeatedly sterilized using many conventional clean-in-place methods.

Typical Applications

- Water lines for beverage dispensing equipment
- Ice cream dispensing equipment
- Frozen beverages dispensing machines (smoothies, shakes, slushies)

Features and Benefits

- All layers compliant with FDA and EU food contact regulations
- Handles four times the pressure of non-reinforced tubing
- Improved flexibility at sub-zero temperatures
- Smooth, non-porous bore resists particle entrapment
- Clear wall enables visualization of fluid flow
- Connects easily to ReSeal® Sanitary Fittings

Regulatory Compliance

- NSF®-51, NSF®-61
- 3-A Sanitary Standard 20-27 (Multiple Use Plastic Materials)
- Compliant with applicable FDA Food Additive Regulations (21 CFR 170-199)*

*Use restrictions and limitations may apply.

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Part Number	ID		OD		Wall Thickness		Length		Min. Bend Radius		Max. Working Pressure				Vacuum Rating			
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(ft)	(m)	(in)	(mm)	73°F (psi)	23°C (bar)	160°F (psi)	71°C (bar)	73°F (inHg)	23°C (mmHg)	160°F (inHg)	71°C (mmHg)
AMH00018	1/4	6.35	7/16	11.11	3/32	2.38	50	15.2	1-1/2	38	230	15.9	90	6.2	29.9	759	25.0	635
AMH00029	3/8	9.525	5/8	15.88	1/8	3.18	50	15.2	1-1/8	29	275	22.1	150	10.3	29.9	759	20.0	508
AMH00038	1/2	12.7	3/4	19.05	1/8	3.18	50	15.2	1-3/4	45	200	13.8	95	6.6	29.9	759	10.0	254
AMH00046	5/8	15.88	7/8	22.23	1/8	3.18	50	15.2	2-3/8	60	165	11.4	105	7.2	25.0	635	10.0	254
AMH00053	3/4	19.05	1	25.4	1/8	3.18	50	15.2	3-1/4	83	145	10	85	5.9	20.0	508	5.0	127
AMH00064	1	25.4	1-3/8	34.96	3/16	4.76	50	15.2	3-3/4	95	100	6.9	60	4.1	20.0	508	5.0	127
AMH00070	1-1/4	31.75	1-5/8	41.28	3/16	4.76	50	15.2	5-1/2	140	85	5.9	55	3.8	10.0	254	3.0	76.2
AMH00074	1-1/2	38.1	2	50.8	1/4	6.35	50	15.2	5-7/8	149	75	5.2	45	3.1	10.0	254	2.0	50.8
AMH05074	1-1/2	38.1	2	50.8	1/4	6.35	20	6.1	5-7/8	149	75	5.2	45	3.1	10.0	254	2.0	50.8
AMH05079	2	50.8	2-3/4	69.85	3/8	9.53	20	6.1	6-7/8	175	60	4.1	40	2.8	25.0	635	10.0	254
AMH05086	3	76.2	3-3/4	95.25	3/8	9.53	20	6.1	13	330	40	2.8	25	1.7	5.0	254	1.0	25.4

Working pressures are calculated at a 1:4 ratio relative to burst pressure using ASTM D1599.

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15s	D2240	64
Tensile Strength, psi (MPa)	D412	2100 (14.5)
Ultimate Elongation, %	D412	350
Tear Resistance, lb-f/in (kN/m)	D1004	205 (36)
Specific Gravity	D792	1.21
Water Absorption, % at 73°F (23°C) 24 hrs.	D570	0.29
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs.	D395 Method B	52
Maximum Recommended Operating Temp., °F (°C)	—	165 (74)
Low Temp Flexibility, °F (°C)	D380	-58 (-50)
Color	Visual	Clear

NOTE ABOUT TESTING CONDITIONS: Unless otherwise noted, all tests were conducted at room temperature (72F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons or 1/4"ID x 7/16"OD tubing.

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.

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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.

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