

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15 Sec	D2240	66
Tensile Strength, psi (MPa)	D412	2,200 (15.2)
Ultimate Elongation, %	D412	390
Tear Resistance, lb-f/inch (kN/m)	D1004	250 (43.8)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. @ 73°F (23°C)	D570	0.22
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	59
Brittleness Temp., °F (°C)	D746	-32 (-36)
Maximum Recommended Operating Temp. °F (°C)	-	165 (74)
Tensile Stress @ 200% Elongation, psi (MPa)	-	1,379 (9.5)
Tensile Set, %	D412	57
Color	-	Clear

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 S3™ B-44-3 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

Tygon S3™ B-44-3

Saint-Gobain Part Number	I.D.	O.D.	Minimum Bend Radius, in	Max. Working Pressure at 73°F, psi	Vacuum Rating In. of Mercury at 73°F
AAB00002	1/16	1/8	1/4	60	29.9
AAB00003	1/16	3/16	1/8	100	29.9
AAB00004	3/32	5/32	3/8	43	29.9
AAB00005	3/32	7/32	1/4	74	29.9
AAB00006	1/8	3/16	1/2	34	25.0
AAB00007	1/8	1/4	3/8	60	29.9
AAB00009	5/32	7/32	3/4	28	16.0
AAB00010	5/32	9/32	1/2	50	29.9
AAB00011	3/16	1/4	1	25	11.0
AAB00012	3/16	5/16	5/8	43	29.9
AAB00013	3/16	3/8	1/2	60	29.9
AAB00014	3/16	7/16	3/8	74	29.9
AAB00016	1/4	5/16	1-5/8	19	6.0
AAB00017	1/4	3/8	1	34	25.0
AAB00018	1/4	7/16	3/4	47	29.9
AAB00019	1/4	1/2	5/8	60	29.9
AAB00022	5/16	7/16	1-3/8	28	16.0
AAB00023	5/16	1/2	1	40	29.9
AAB00024	5/16	9/16	7/8	50	29.9
AAB00027	3/8	1/2	1-3/4	25	11.0
AAB00028	3/8	9/16	1-3/8	34	25.0
AAB00029	3/8	5/8	1-1/8	44	29.9
AAB00034	7/16	11/16	1-3/8	36	29.9
AAB00036	1/2	5/8	2-7/8	19	6.0
AAB00037	1/2	11/16	2-1/8	27	14.0
AAB00038	1/2	3/4	1-3/4	34	25.0
AAB00046	5/8	7/8	2-3/8	29	16.0
AAB00051	11/16	15/16	2-7/8	27	13.0
AAB00053	3/4	1	3-1/4	25	11.0
AAB00059	7/8	1-1/8	4-1/8	22	8.0
AAB00062	1	1-1/4	5-1/8	20	6.0
AAB00064	1	1-3/8	3-3/4	27	14.0
AAB00065	1	1-1/2	3	34	25.0
AAB00069	1-1/4	1-1/2	7-3/8	16	4.0
AAB00070	1-1/4	1-5/8	5-1/2	23	9.0
AAB00071	1-1/4	1-3/4	4-3/8	28	16.0
AAB00073	1-1/2	1-7/8	7-1/4	19	6.0
AAB00074	1-1/2	2	5-7/8	25	11.0
AAB00076	1-3/4	2-1/4	7-1/2	22	8.0
AAB00078	2	2-1/2	9-3/8	19	6.0
AAB05080	2	3	5-1/2	34	25.0
AAB05081	2-1/4	2-3/4	11-1/4	18	5.0

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

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.



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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.

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