

Tygon S3™ E-LFL Inventoried Sizes

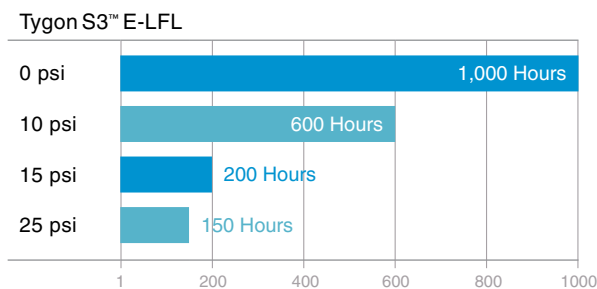
Saint-Gobain Part Number	I.D.		O.D.		Wall Thickness		Length		Minimum Bend Radius		Maximum Working Pressure		Vacuum Rating of Mercury	
	In.	mm	In.	mm	In.	mm	Ft.	m	In.	mm	psi at 73°F	bars at 23°C	inches at 73°F	mm at 23°C
	AVX42003	1/16	1.6	3/16	4.8	1/16	1.6	25	7.62	1/4	6.4	50	3.5	29.9
AVX42007	1/8	3.2	1/4	6.4	1/16	1.6	25	7.62	1/2	12.7	34	2.3	29.9	760
AVX42012	3/16	4.8	5/16	7.9	1/16	1.6	25	7.62	3/4	19.0	25	1.7	29.9	760
AVX42017	1/4	6.4	3/8	9.5	1/16	1.6	25	7.62	1	25.4	20	1.4	15.0	381
AVX42019	1/4	6.4	1/2	12.7	1/8	3.2	25	7.62	3/4	19.0	35	2.4	29.9	760
AVX42022	5/16	7.9	7/16	11.1	1/16	1.6	25	7.62	1-1/4	31.75	16	1.1	10.0	254
AVX42029	3/8	9.5	5/8	15.9	1/8	3.2	25	7.62	1	25.4	25	1.7	29.9	760
AVX42038	1/2	12.7	3/4	19.0	1/8	3.2	25	7.62	1-1/2	38.1	20	1.4	20.0	508
AVX06057	3/4	19.0	1-1/4	31.75	1/4	6.4	10	3.04	1-3/4	44.4	24	1.7	29.9	760
AVX06064	1	25.4	1-3/8	34.9	3/16	4.8	10	3.04	3-1/4	82.5	15	1.0	5.0	127

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

- The most advanced choice for phthalate-free tubing
- Non-DEHP, bio-based plasticizer
- Fully biodegradable plasticizer
- Based on sustainable resources
- Safe for the environment; reduced end-user risk

Peristaltic Pump Tubing Life

The table below illustrates hours until failure of 1/4" I.D. x 3/8" O.D. tubing for 0, 10 and 15 psi and 1/4" I.D. x 7/16" O.D. tubing for 25 psi. In each case, a 3-roller pump head was utilized operating at 600 rpm under room temperature (73°F). Tubing failure is measured in hours of use prior to rupture.



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.