SAINT-GOBAIN MEDICAL

TYGON® LAB E-3603

Tubing for Medical Device Manufacturers



Tygon® Lab E-3603 is a crystal clear, flexible tubing selected for equipment fluid handling where visual inspection, repeatable dimensions, and chemical resistance are required. Vacuum-rated sizes are available for suction and aspiration lines at room temperature.

VISUAL CLARITY

The clarity of Tygon Lab E-3603 enables visual monitoring of flow, bubbles, and cleanliness in equipment fluid paths. Tygon Lab E-3603 provides chemical resistance to a broad range of fluids commonly encountered in medical device and diagnostic equipment operation and maintenance.

CONSISTENT FLOW

Tight dimensional control and lot-to-lot consistency support reproducible flow performance across builds. A smooth inner bore can help reduce buildup and holdup volume in systems that cycle between process fluids and rinse solutions.

ENGINEERED TO LAST

Tygon Lab E-3603 is formulated for resistance to flex-fatigue and abrasion for use in dynamic assemblies, including instrumentation connections, peristaltic pump interfaces, drain lines, and waste transfer lines. Vacuum-rated configurations are available; vacuum performance depends on tubing size, wall thickness, temperature, and system conditions.

FEATURES/BENEFITS

- Flexible with resistance to flex-fatigue and abrasion in dynamic routing
- Vacuum-rated sizes available for suction and aspiration lines at room temperature (size-dependent)
- Has not been formulated intentionally with BPA or phtalates
- Non-DEHP, bio-based plasticizer

TYPICAL APPLICATIONS

- Drain and overflow lines in equipment fluidic assemblies
- Peristaltic pump interfaces in instrument subsystems
- Reagent, buffer, rinse, and cleaning solution transfer in equipment fluid paths
- Suction, aspiration, and vacuum lines in medical devices and diagnostic equipment
- Waste transfer lines to collection systems and canisters

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Product recommendations are based on a combination of industry knowledge, material science expertise, and/or material testing data. Contact Saint-Gobain Medical for further tubing recommendation information.

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TYGON® LAB E-3603 TUBING MANUFACTURED SIZES AND PRESSURES*

Part Number	ID in (mm)	OD in (mm)	WT in (mm)	Length ft (m)	MBR in (mm)	Max WP 73°F psi (bar)	Vacuum inHg (mmHg)
ACF00001	1/32 (0.8)	3/32 (2,4)	1/32 (0,8)	50 (15)	1/8 (3,2)	69 (4,8)	29.9 (760)
ACF00002	1/16 (1.6)	1/8 (3,2)	1/32 (0,8)	50 (15)	1/4 (6,4)	36 (2,5)	29.9 (760)
ACF00003	1/16 (1.6)	3/16 (4,8)	1/16 (1,6)	50 (15)	1/8 (3,2)	69 (4,8)	29.9 (760)
ACF00004	3/32 (2.4)	5/32 (4,0)	1/32 (0,8)	50 (15)	3/8 (9,5)	25 (1,7)	29.9 (760)
ACF00006	1/8 (3.2)	3/16 (4,8)	1/32 (0,8)	50 (15)	1/2 (12,7)	20 (1,4)	20 (508)
ACF00007	1/8 (3.2)	1/4 (6,4)	1/16 (1,6)	50 (15)	3/8 (9,5)	36 (2,5)	29.9 (760)
ACF00010	5/32 (4)	9/32 (7,1)	1/16 (1,6)	50 (15)	1/2 (12,7)	30 (2,1)	29.9 (760)
ACF00012	3/16 (4.8)	5/16 (7,9)	1/16 (1,6)	50 (15)	5/8 (15,9)	25 (1,7)	29.9 (760)
ACF00017	1/4 (6.4)	3/8 (9,5)	1/16 (1,6)	50 (15)	1 (25,4)	20 (1,4)	20 (508)
ACF00018	1/4 (6.4)	7/16 (11,1)	3/32 (2,4)	50 (15)	3/4 (19,0)	28 (1,9)	29.9 (760)
ACF00019	1/4 (6.4)	1/2 (12,7)	1/8 (3,2)	50 (15)	1/2 (12,7)	3 (2,5)	29.9 (760)
ACF00023	5/16 (7.9)	1/2 (12,7)	3/32 (2,4)	50 (15)	1 (25,4)	23 (1,6)	29.9 (760)
ACF00027	3/8 (9.5)	1/2 (12,7)	1/16 (1,6)	50 (15)	1-1/2 (38,1)	14 (1,0)	9 (229)
ACF00028	3/8 (9.5)	9/16 (14,3)	3/32 (2,4)	50 (15)	1-3/8 (34,9)	20 (1,4)	21 (533)
ACF00036	1/2 (12.7)	5/8 (15,9)	1/16 (1,6)	50 (15)	2-7/8 (73,0)	12 (0,8)	5 (127)
ACF00038	1/2 (12.7)	3/4 (19,0)	1/8 (3,2)	50 (15)	1-1/2 (38,1)	20 (1,4)	21 (533)
ACF00046	5/8 (15.9)	7/8 (22,2)	1/8 (3,2)	50 (15)	2-3/8 (60,3)	17 (1,2)	13 (330)
ACF00053	3/4 (19)	1 (25,4)	1/8 (3,2)	50 (15)	3-1/4 (82,6)	14 (1,0)	9 (229)
ACF00015	3/16 (4.8)	9/16 (14,3)	3/16 (4,8)	50 (15)	1/4 (6,4)	69 (4,8)	29.9 (760)
ACF00020	1/4 (6.4)	5/8 (15,9)	3/16 (4,8)	50 (15)	1/2 (12,7)	53 (3,7)	29.9 (760)
ACF00030	3/8 (9.5)	7/8 (22,2)	1/4 (6,4)	50 (15)	5/8 (15,9)	47 (3,2)	29.9 (760)
ACF00040	1/2 (12.7)	1-1/8 (28,6)	5/16 (7,9)	50 (15)	7/8 (22,2)	45 (3,1)	29.9 (760)
ACF00066	1 (25.4)	2 (50,8)	1/2 (12,7)	50 (15)	1-7/8 (47,6)	36 (2,5)	29.9 (760)

*Safety factor of 5:1 ratio of burst pressure to working pressure.
Custom sizes also available.

TYGON® LAB E-3603 TUBING TYPICAL PHYSICAL PROPERTIES**

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15s	D2240	56
Color	-	Clear
Tensil Strength, psi (MPa)	D412	1,750 (12.1)
Ultimate Elongation, %	D412	425
Tear Resistance, lb-f/inch (kN/m)	D1004	173 (31)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. at 23°C	D570	0.21
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs.	D395 Method B	64
Brittleness by Temperature, °F (°C)	D746	-51 (-46)
Maximum recommended operating Temperature, °F (°C)	-	165 (74)
Tensil Stress at 100% elongation, psi (MPa)	-	582 (4.0)
Tensil Set, %	D412	95

**Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strips, 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

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