

The only choice for phthalate-free flexible tubing

Non-DEHP Tubing for Laboratory, Food & Beverage and Vacuum Applications

Tygon S3™ E-3603 from Saint-Gobain Performance Plastics is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable, flexible tubing products. The bio-based Tygon S3™ line combines the high performance standards customers demand with an eco-friendly tubing design. Crystal clear and flexible, long-lasting and crack-resistant, the new Tygon S3™ E-3603 non-DEHP tubing delivers the same superior performance you have come to expect, but now in a formulation that contains a non-DEHP plasticizer.

Tygon S3™ E-3603 Tubing handles most inorganic chemicals found in the laboratory. It is non-oxidizing and non-contaminating, and less permeable than rubber tubing. The glassy-smooth inner bore helps prevent buildup to facilitate cleaning. Coils are marked at 1-foot (30.4 cm) intervals for easy measuring.

Engineered to Last

Tygon S3™ E-3603 Tubing is specially formulated for resistance to flex-fatigue and abrasion. As a tubing for instrumentation connection, vent, drain and other general laboratory applications, Tygon S3™ E-3603 Tubing offers superior life, which minimizes the labor and expense of replacement. It can be sterilized through conventional autoclave methods (steam 30 minutes at 15 psi, 121° C) and Ethylene Oxide.

Available in Vacuum Tubing Sizes

Tygon S3[™] E-3603 Vacuum Tubing has extra-heavy walls that will withstand a full vacuum at room temperature (29.9" [759mm] of mercury at 73°F [23°C] and up to 27" [686mm] of mercury at 140°F [60°C]). Like standard Tygon® Laboratory Tubing, Tygon S3[™] E-3603 Vacuum Tubing resists most inorganic chemicals and can be used in corrosive atmospheres.

Regulatory Standards

Tygon S3[™] complies with FDA, NSF, 3-A, meets USP Class VI, Japan Food Sanitation Law # 370/1959, REACH, 1935/2004/EC and 10/2011/EU for many foods and beverages. Tygon S3[™] tubing products do not contain chemicals listed in California's Prop 65.

* For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance. The complete compliance information and use instructions can be found at www.TygonS3.com.



Tygon S3[™] E-3603 Features/Benefits

- The new bio-based formulation delivers the same excellent performance
- · Outstanding chemical resistance
- Lot-to-lot consistency for reproducible results
- · Non-oxidizing and non-contaminating
- Smooth, polished inner wall
- Slips easily over fittings and grips securely for simple lab set-ups
- Contains no BPA or phthalates
- Standard sizes available to hold full vacuum at room temperature

Typical Applications

- General laboratory
- Food & beverage*
- Biopharmaceutical
- · Analytical instruments
- Peristaltic and vacuum pumps
- Ideal for condensers, incubators, desiccators, gas lines and drain lines



Tygon S3™ E-3603 Non-DEHP Tubing—Available Sizes

Part Number	
ACFORDOR 1922 0.8 3/32 2.4 1/32 0.8 50 15 1/8 2.2 69 4.8 299	mm at 23°C
ACF00002	760
ACCP00002	760
ACF00003	760
ACF00004 3132 2.4 5/32 4.0 1/32 0.8 50 15 3/8 9.5 25 1.7 29.9 ACF00005 3132 2.4 5/32 4.0 1/32 0.8 100 30.5 3/8 9.5 25 1.7 29.9 ACF00006 1/8 3.2 3/16 4.8 1/32 0.8 50 15 1/4 6.4 47 3.2 29.9 ACF00006 1/8 3.2 3/16 4.8 1/32 0.8 50 15 1/2 1/2 1/2 7 20 1.4 20 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 1/2 1/2 1/2 7 20 1.4 20 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00007 1/8 3.2 1/4 6.4 1/16 1.6 50 15 3/8 9.5 36 2.5 29.9 ACF00000 5/32 4.0 7/32 5.6 1/32 0.8 50 152 1/3 3/8 9.5 36 2.5 29.9 ACF00010 5/32 4.0 7/32 5.6 1/32 0.8 50 15 1/3 1/2 1/2 7 30 2.1 1/2 1/2 ACF00010 5/32 4.0 9/32 7.1 1/16 1.6 50 15 1/2 1/2 1/2 30 2.1 29.9 ACF00010 3/16 4.8 5/16 7.9 1/16 1.6 50 15 1/2 1/2 1/2 30 2.1 29.9 ACF00011 3/16 4.8 5/16 7.9 1/16 1.6 50 15 15 1/2 1/2 1/2 30 2.1 29.9 ACF0011 3/16 4.8 5/16 7.9 1/16 1.6 50 15 15 1/2 1/2 1/2 30 2.1 29.9 ACF0012 3/16 4.8 5/16 7.9 1/16 1.6 50 15 5/5 1/2 1/2 1/2 30 2.1 29.9 ACF0010 3/16 4.8 5/16 7.9 1/16 1.6 50 15 5/5 1/2 1/2 1/2 30 2.1 29.9 ACF0010 3/16 4.8 5/16 7.9 1/16 1.6 50 15 5/5 1/2 1/2 1/2 36 2.5 1/2 29.9 ACF0010 3/16 4.8 5/16 7.9 1/16 1.6 50 15 5/5 1/2 1/2 3/6 2.5 1/7 29.9 ACF0010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 5/5 1/2 1/2 3/6 2.5 1/7 29.9 ACF0010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF0010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF0010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1.6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1/6 50 15 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1/6 50 15 1/2 1/2 1/2 3/6 2.5 1/7 29.9 ACF00010 3/16 4.8 5/16 7/9 1/16 1/6 50 15 1/2 1/2 1/2 3/6 2.5 1/7 29.9 ACF	760
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ACF02012 3/16 4.8 5/16 7.9 1/16 1.6 100 30.5 5/8 15.9 25 1.7 29.9 ACF04012 3/16 4.8 5/16 7.9 1/16 1.6 500 152 5/8 15.9 25 1.7 29.9 ACF00013 3/16 4.8 3/8 9.5 3/32 2.4 50 15 1/2 12.7 36 2.5 29.9 ACF00014 3/16 4.8 7/16 11.1 1/8 3.2 50 15 1/2 12.7 36 2.5 29.9 ACF00016 1/4 6.4 5/16 7.9 1/32 0.8 50 15 1.5/8 41.3 12 0.8 5 ACF00017 1/4 6.4 3/8 9.5 1/16 1.6 500 15 1 25.4 20 1.4 20 ACF00017 1/4 6.4 3/8 9.5 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF00017 1/4 6.4 3/8 9.5 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF0017 1/4 6.4 3/8 9.5 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF0019 1/4 6.4 3/8 9.5 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF0019 1/4 6.4 3/8 9.5 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF0019 1/4 6.4 1/2 12.7 1/8 3.2 50 15 1/2 12.7 36 2.5 29.9 ACF0019 1/4 6.4 1/2 12.7 1/8 3.2 50 15 1/2 12.7 36 2.5 29.9 ACF00022 5/16 7.9 7/16 11.1 1/16 1.6 50 15 1 25.4 20 1.4 20 ACF00023 5/16 7.9 7/16 11.1 1/16 1.6 50 15 1 2.2 2.4 20 1.4 20 ACF00024 5/16 7.9 9/16 14.3 1/8 3.2 50 15 1/2 12.7 36 2.5 29.9 ACF00027 3/8 9.5 1/16 1.3 1/8 3.2 50 15 1/2 12.7 36 2.5 29.9 ACF00028 5/16 7.9 9/16 14.3 1/8 3.2 50 15 1.2 1.2 2.4 2.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	760
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ACF00016	760
ACF00017	760
ACF02017	127
ACF00018	508 508
ACF00018	508
ACF00022 5/16 7.9 7/16 11.1 11/16 1.6 50 15 1-3/8 34.9 17 1.2 13 ACF00023 5/16 7.9 1/2 12.7 3/32 2.4 50 15 1 25.4 23 1.6 29.9 ACF00024 5/16 7.9 9/16 14.3 1/8 3.2 50 15 1 25.4 23 1.6 29.9 ACF00025 5/16 7.9 9/16 14.3 1/8 3.2 50 15 1 25.4 23 1.6 29.9 ACF00025 5/16 7.9 5/8 15.9 5/32 4.0 50 15 3/4 19.0 36 2.5 29.9 ACF00027 3/8 9.5 1/2 12.7 1/16 1.6 50 15 1-1/2 38.1 14 1.0 9 ACF00028 3/8 9.5 9/16 14.3 3/32 2.4 50 15 1-1/2 38.1 14 1.0 9 ACF00029 3/8 9.5 5/8 15.9 1/8 3.2 50 15 1-1/8 28.6 25 1.7 29.9 ACF00029 3/8 9.5 5/8 15.9 1/8 3.2 50 15 1-1/8 28.6 25 1.7 29.9 ACF00033 7/16 11.1 9/16 14.3 1/16 1.6 50 15 1-1/8 28.6 25 1.7 29.9 ACF00034 7/16 11.1 5/8 15.9 3/32 2.4 50 15 1-3/8 34.9 20 1.4 21 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/4 44.4 18 1.2 15 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00034 7/16 11.1 11/16 17.5 3/32 2.4 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 1-1/2 38.1 20 1.4 21 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 5/32 4.0 50 15 2-1/2 63.5 14 1.0 9 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	760
ACF00022	760
ACF00023	760
ACF00024	330
ACF00025	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 ACF00028 3/8 9.5 9/16 14.3 3/32 2.4 50 15 1-3/8 34.9 20 1.4 21 ACF00029 3/8 9.5 5/8 15.9 1/8 3.2 50 15 1-1/8 28.6 25 1.7 29.9 ACF00032 7/16 11.1 9/16 14.3 1/16 1.6 50 15 2-1/4 57.2 13 0.9 7 ACF00033 7/16 11.1 5/8 15.9 3/32 2.4 50 15 1-3/4 44.4 18 1.2 15 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00036 1/2 12.7 5/8 15.9	760 760
ACF00028 3/8 9.5 9/16 14.3 3/32 2.4 50 15 1-3/8 34.9 20 1.4 21 ACF00029 3/8 9.5 5/8 15.9 1/8 3.2 50 15 1-1/8 28.6 25 1.7 29.9 ACF00032 7/16 11.1 9/16 14.3 1/16 1.6 50 15 2-1/4 57.2 13 0.9 7 ACF00033 7/16 11.1 5/8 15.9 3/32 2.4 50 15 1-3/4 44.4 18 1.2 15 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/4 34.9 22 1.5 28 ACF00036 1/2 12.7 5/8 15.9 1/16 1.6 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2-1/2 63.5 14 1.0 9 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 2 50.8 18 1.2 17	229
ACF00032 7/16 11.1 9/16 14.3 1/16 1.6 50 15 2-1/4 57.2 13 0.9 7 ACF00033 7/16 11.1 5/8 15.9 3/32 2.4 50 15 1-3/4 44.4 18 1.2 15 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00036 1/2 12.7 5/8 15.9 1/16 1.6 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2-1/2 63.5 14 1.0 9 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 2 50.8 18 1.2 17	533
ACF00033 7/16 11.1 5/8 15.9 3/32 2.4 50 15 1-3/4 44.4 18 1.2 15 ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00036 1/2 12.7 5/8 15.9 1/16 1.6 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 100 30.5 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	760
ACF00034 7/16 11.1 11/16 17.5 1/8 3.2 50 15 1-3/8 34.9 22 1.5 28 ACF00036 1/2 12.7 5/8 15.9 1/16 1.6 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 100 30.5 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	178
ACF00036 1/2 12.7 5/8 15.9 1/16 1.6 50 15 2-7/8 73.0 12 0.8 5 ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF02037 1/2 12.7 11/16 17.5 3/32 2.4 100 30.5 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 2	381
ACF00037 1/2 12.7 11/16 17.5 3/32 2.4 50 15 2-1/4 57.2 15 1.0 12 ACF02037 1/2 12.7 11/16 17.5 3/32 2.4 100 30.5 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	711
ACF02037 1/2 12.7 11/16 17.5 3/32 2.4 100 30.5 2-1/4 57.2 15 1.0 12 ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	305
ACF00038 1/2 12.7 3/4 19.0 1/8 3.2 50 15 1-1/2 38.1 20 1.4 21 ACF00039 1/2 12.7 13/16 20.6 5/32 4.0 50 15 1-1/2 38.1 24 1.7 29.9 ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	305
ACF00041 9/16 14.3 3/4 19.0 3/32 2.4 50 15 2-1/2 63.5 14 1.0 9 ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	533
ACF00042 9/16 14.3 13/16 20.6 1/8 3.2 50 15 2 50.8 18 1.2 17 ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	760
ACF00045 5/8 15.9 13/16 20.6 3/32 2.4 50 15 3 76.2 13 0.9 7	229
	432
AC HODDA'S 189 189 7/9 777 1/0 77 EA 18 2 2/0 /A2 17 12 12	178
ACF00046 5/8 15.9 7/8 22.2 1/8 3.2 50 15 2-3/8 60.3 17 1.2 13 ACF00047 5/8 15.9 15/16 23.8 5/32 4.0 50 15 2 50.8 20 1.4 21	330 533
ACF00050 11/16 17.5 7/8 22.2 3/32 2.4 50 15 3-1/2 88.9 12 0.8 6	152
ACF00053 3/4 19.0 1 25.4 1/8 3.2 50 15 3-1/4 82.6 14 1.0 9	229
ACF00054 3/4 19.0 1-1/16 27.0 5/32 4.0 50 15 2-3/4 69.8 17 1.2 15	381
ACF00055 3/4 19.0 1-1/8 28.6 3/16 4.8 50 15 2-3/8 60.3 20 1.4 21	533
ACF00057 3/4 19.0 1-1/4 31.8 1/4 6.4 50 15 2 50.8 25 1.7 29.9	760
ACF00059 7/8 22.2 1-1/8 28.6 1/8 3.2 50 15 4-1/8 104.8 13 0.9 7	178
ACF00060 7/8 22.2 1-3/16 30.2 5/32 4.0 50 15 3-1/2 88.9 15 1.0 11 ACF00062 1 25.4 1-1/4 31.8 1/8 3.2 50 15 4-3/4 120.6 12 0.8 5	279 127
ACF00062 1 25.4 1-1/4 31.6 1/8 3.2 30 15 4-3/4 120.6 12 0.6 3 ACF00064 1 25.4 1-3/8 34.9 3/16 4.8 50 15 4 101.6 16 1.1 12	305
ACF00065 I 25.4 I-I/2 38.I I/4 6.4 50 I5 3 76.2 20 I.4 2I	533
ACF00068 I-I/8 28.6 I-I/2 38.I 3/I6 4.8 50 I5 4-I/2 II4.3 I4 I.0 9	229
ACF00069 I-1/4 31.8 I-1/2 38.I I/8 3.2 50 I5 7-7/8 200 I0 0.7 3	76
ACF00070 I-1/4 31.8 I-5/8 41.3 3/16 4.8 50 I5 5-1/2 I39.7 I3 0.9 7	178
ACF00073 1-1/2 38.1 1-7/8 47.6 3/16 4.8 50 15 7-1/4 184.2 12 0.8 5	127
ACF00074	229 178
ACF00076	178
ACF05078 2 50.8 2-1/2 63.5 1/4 6.4 20 6 9-3/8 238.1 12 0.8 5	127

Tygon S3[™] E-3603 Non-DEHP Tubing—Available Sizes

Saint-Gobain	1.1	D.	0.	.D.	W Thick		Len	gth		mum Radius		mum Pressure		n Rating cury at
Part Number	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
						\	/acuum Siz	zes						
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
ACF00049	5/8	15.9	1-3/8	34.9	3/8	9.5	50	15	I	25.4	43	3.0	29.9	760
ACF00058	3/4	19.0	1-1/2	38.1	3/8	9.5	50	15	1-1/2	38.1	36	2.5	29.9	760
ACF00066	I	25.4	2	50.8	1/2	12.7	50	15	1-7/8	47.6	36	2.5	29.9	760
ACF05066	I	25.4	2	50.8	1/2	12.7	20	6	1-7/8	47.6	36	2.5	29.9	760
					Uni	pacs (10	/10' length	is per car	ton)					
ACFUN007	1/8	3.2	1/4	6.4	1/16	1.6	10/10'	10/3	3/8	9.5	45	3.1	29.9	760
ACFUN012	3/16	4.8	5/16	7.9	1/16	1.6	10/10'	10/3	5/8	15.9	30	2.0	29.9	760
ACFUN017	1/4	6.4	3/8	9.5	1/16	1.6	10/10'	10/3	I	25.4	25	1.7	20	508
ACFUN019	1/4	6.4	1/2	12.7	1/8	3.2	10/10'	10/3	1/2	12.7	40	2.8	29.9	760
ACFUN027	3/8	9.5	1/2	12.7	1/16	1.6	10/10'	10/3	1-1/2	38.1	20	1.4	9	229
ACFUN036	1/2	12.7	5/8	15.9	1/16	1.6	10/10'	10/3	2-7/8	73.0	10	0.7	5	127
ACFUN053	3/4	19.0	I	25.4	1/8	3.2	10/10'	10/3	3-1/4	82.6	18	1.2	9	229
ACFUN062	I	25.4	1-1/4	31.8	1/8	3.2	10/10'	10/3	4-3/4	120.6	15	1.0	5	127
			Va	cuum Un	ipacs (10	/10' or 4	/10' length	ıs per car	ton as sl	nown bel	ow)			
ACFUN015	3/16	4.8	9/16	14.3	3/16	4.8	10/10'	10/3	1/4	6.4	60	4.2	29.9	760
ACFUN020	1/4	6.4	5/8	15.9	3/16	4.8	10/10'	10/3	1/2	12.7	50	3.5	29.9	760
ACFUN030	3/8	9.5	7/8	22.2	1/4	6.4	10/10'	10/3	5/8	15.9	50	3.5	29.9	760
ACFUN040	1/2	12.7	1-1/8	28.6	5/16	7.9	10/10'	10/3	7/8	22.2	45	3.1	29.9	760
ACFUN049	5/8	15.9	1-3/8	34.9	3/8	9.5	10/10'	10/3	I	25.4	40	2.8	29.9	760

Metric Sizes

Saint-Gobain Part Number	I.D.	O.D.	Wall Thickness mm	Length m	Minimum Bend Radius mm	Maximum Working Pressure Bars at 23°C	Vacuum Rating mm of Mercury at 23°C
ACFISI502	2	4	1	15	7	2.5	760
ACFISI5I7	3	5	1	15	13	1.7	760
ACFISI5I8	4	6	ı	15	16	1.4	533
ACFISI503	5	8	1.5	15	19	1.6	760
ACFISI504	6	9	1.5	15	22	1.4	559
ACFISI506	8	12	2	15	29	1.4	533

Unless otherwise noted, all tests were conducted at room temperature (73°F/23°C). Values shown were determined on 0.075"/1.9 mm thick extruded strip or 0.075"/1.9 mm thick molded ASTM plaques or molded ASTM durometer buttons.

Please consult factory for availability.

Metric dimensions are nominal.

 $[\]mbox{*}$ Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

For more than four decades, Saint-Gobain Performance Plastics and its family of companies have supplied the world with innovative, highperformance polymer products for the most demanding applications. Our tradition of excellence goes back more than 300 years through our parent company, Compagnie de Saint-Gobain, one of the world's top 100 industrial corporations, with operations in 64 countries. This successful corporation has been built with the single purpose of serving the customer and a commitment to quality and leadership in each of the industries served.

Relative Chemical Resistance Properties*

Category	Chemical Tested	Performance
	Conc.	F
Acids	Med.	Е
	Weak	E
	Conc.	F
Bases	Med.	Е
	Weak	E
Salts		Е
Alcohols		F
Ketones		U
Hydrocarbons		U

E = Excellent F = Fair U = Unsatisfactory *All tests conducted at room temperature.



Product Characteristics[†]

Opacity	Clear
FDA Approved for Food Contact	Yes
NSF 51 Standard	Yes
USP Class VI	Approved

[†] For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance. The complete compliance information and use instructions can be found at www.TygonS3.com.

Typical Physical Properties

Property	ASTM Method	Value or Rating E-3603
Durometer Hardness (Shore A), 15 sec	D2240	56
Color	-	Clear
Tensile 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. @ 73°F (23°C)	D570	0.21
Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	64
Brittle Temperature, °F (°C)	D746	-51 (-46)
Maximum Recommended Operating Temp., °F (°C)	-	165 (74)
Tensile Stress, @ 100% elongation psi (MPa)	-	582 (4.0)
Tensile Set, %	D412	95

Unless otherwise noted, all tests were conducted at room temperature $(73^{\circ}F/23^{\circ}C)$. Values shown were determined on $0.075^{"}/1.9$ mm thick extruded strip or $0.075^{"}/1.9$ mm thick molded ASTM plaques or molded ASTM durometer buttons.

Saint-Gobain Performance Plastics Manufacturing Facilities

La Mothe-aux-Aulnaies F-89120 Charny, France Tel: (33) 3-86-63-78-78 Fax: (33) 3-86-63-77-77 2664 Gilchrist Road Akron, OH 44305 Tel: (800) 798-1554 Tel: (330) 798-9240 Fax: (330) 798-6968



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.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk, of injury, loss or damage, direct or consequential, arising of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.

