

Tygon[®] E-65-F

Taste & Odor Free, Long-Life Tubing for Food and Beverage Dispensing

Formulated to withstand a temperature range from -75°F to 275°F, Tygon E-65-F tubing will not crack or deteriorate when used in demanding food and beverage applications. Extremely flexible, it resists kinks and retains its shape making installation quick and easy. Its excellent flexural fatigue resistance makes it the absolute best choice for use in peristaltic pumps found in dispensing equipment.

Sensory Profile: Taste and Odor Free

Tygon E-65-F was evaluated by an independent lab* in a blind taste test. The results support that this tubing can be referred to as "taste and odor free" for applications using milk, similar dairy products, and cola syrup.

Excellent Chemical Resistance

Tygon E-65-F tubing provides resistance to many food products, including those containing vegetable oils. It has excellent acid, alkali, and cleaner solution resistance, and is compatible with numerous oxidizing agents such as peroxide, hypochlorite and ozone. For the complete listing of common chemicals and their relative effect on Tygon E-65-F tubing, please refer to www.processsystems.saint-gobain.com.

Regulatory Compliance

- NSF 51
- Meets the applicable requirements of FDA Food Additive Regulations and Regulation (EC) No 1935/2004, (EU) 10/2011 for its intended use



Features and Benefits

- Taste and odor free
- Long flex life in peristaltic pumps
- Temperature resistant from -75°F to 275°F
- Compatible with milk-based products, frozen yogurt, and soft-serve ice cream
- Chemically compatible with a wide range of cleaners and disinfectants
- Withstands pasteurization temperatures

Typical Dispensing Applications

- Bag-in-box juice
- Frozen yogurt
- Soft-serve ice cream
- Gelato

* Tufts University Sensory and Science Center, February 2018

Tygon E-65-F

Part Number	ID	OD	Wall Thickness	Length	Min. Bend Radius	Max. Working Pressure 73°F	Vacuum Rating at 73°F
	in. (mm)	in. (mm)	in. (mm)	ft. (m)	in. (mm)	psi (bar)*	inHg (mmHg)
AND00003	1/16 (1.60)	3/16 (4.76)	1/16 (1.59)	50 (15.24)	3/16 (4.76)	32 (2.20)	29.9 (760)
AND00017	1/4 (6.35)	3/8 (9.53)	1/16 (1.59)	50 (15.24)	1 (25.4)	13 (0.90)	29.9 (760)
AND00029	3/8 (9.53)	5/8 (15.88)	1/8 (3.18)	50 (15.24)	1-7/8 (47.63)	11 (0.76)	25.0 (635)
AND00053	3/4 (19.05)	1 (25.4)	1/8 (3.18)	50 (15.24)	3-3/8 (85.73)	10 (0.69)	25.0 (635)
AND632465	1-1/8 (30)	1-3/4 (45)	5/16 (7.50)	9.84 (3)	8-1/2 (215.90)	N/A	N/A

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

Typical Physical Properties

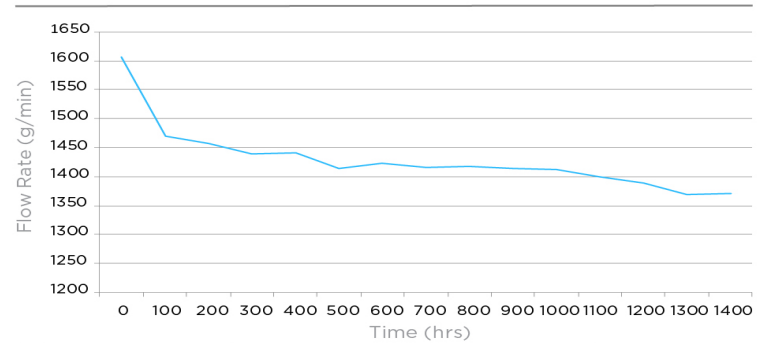
Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15s	D2240	65
Color	-	Opaque White
Tear Resistance, lbft/in	D1004	170
Specific Gravity	D792	0.89
Water Absorption, % at 73°F (23°C) for 24 hrs.	D570	1.5
Compression Set Constant Deflection, % at 158°F (70°C) for 22hrs.	D395	36
Maximum Recommended Operating Temperature, °F (°C)	-	275 (135)
Low Temp Flexibility °F (°C)	D380	-112 (-80)

Unless otherwise noted, all tests were conducted at room temperature 73°F (23°C). Values shown were determined on 0.075" (1.905 mm) thick extruded strip or 0.075" (1.905 mm) thick molded ASTM plaques or molded ASTM durometer buttons. Size of tubing tested is 1/8" ID x 1/4" OD.

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 pressure, 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.

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 pressure, 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.

Peristaltic Pump Tubing Life* Tygon E-65-F Tubing



Test conditions: 73°F at 50% relative humidity, 600rpm, 0psi

Testing was stopped at 1400hrs; the tubing was still functioning and maintained flow rate stability

* 11/29/17 Corrosion Testing Laboratories Inc.
CTL REF#33584



Saint-Gobain Performance Plastics

2664 Gilchrist Road
Akron, OH 44305

1-800-798-1554
Tel: (330) 798-9240
Fax: (330) 798-6968

www.processsystems.saint-gobain.com

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.

Tygon® is a registered trademark.