

# Tygon® 2075 vs Tygon® 2375

## TECHNICAL DATA ANALYSIS COMPARISON

### TYPICAL PHYSICAL PROPERTIES

Property	ASTM Method	Tygon® 2075 Value or Rating	Tygon® 2375 Value or Rating
Durometer Hardness (Shore A), 15s	D2240	72	75
Tensile Strength, psi (MPa)	D412	2,000 (13.8)	1900 (13.1)
Ultimate Elongation, %	D412	700	850
Tensile Stress @ 100 % elongation, psi (MPa)	D412	350	425 (2.9)
Tensile Set (@ 75% of Ultimate Elongation), %	D412	187	300
Tear Resistance, lb-f/inch (kN/m)	D1004	220 (39.0)	240 (42)
Compression Set	D395	84	100
Constant Deflection, % @ 158°F (70°C) for 22 hours	Method B		
Brittle Temperature, °F (°C)	D746	-108 (-78)	< -75 (<-59)
Low Temp. Flexibility, °F (°C)	D 380	-94 (-70)	Pending
Specific Gravity	D792	0.9	0.9
Water Absorption, % 24 hrs at 73°F (23°C)	D570	<0.01	0.04
Maximum Recommended Operating Temperature °F (°C)	-	125	130
Color	-	Clear	Clear

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.

### RELATIVE CHEMICAL RESISTANCE PROPERTIES FOR TYGON® 2375\*

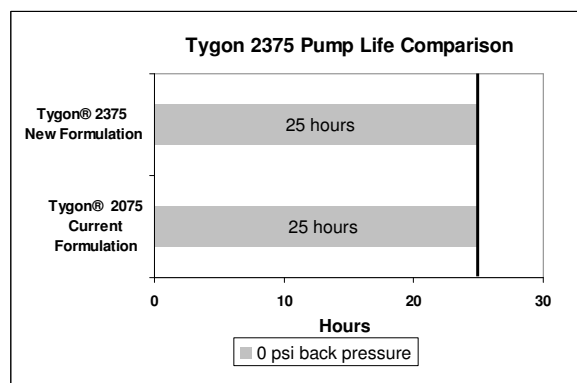
Acids			Bases			Salts	Alcohols	Ketones
conc.	med.	weak	conc.	med.	weak			
F	E	E	E	E	E	E	E	F

E = Excellent F = Fair U = Unsatisfactory

\*All tests conducted at room temperatures.

Product Characteristics:	Tygon® 2075	Tygon® 2375
Opacity	Clear	Clear
FDA Approved for Food Contact	Yes	Yes
EU Food Approved	No	Pending
REACH Compliant	Yes	Yes
NSF 51 Standard	No	Pending
Sterilization Methods	Radiation, Gas, Autoclave	Radiation and Gas results Pending (not recommended for autoclave)
Working Pressure 1/4" I.D. x 3/8" O.D @ 73°F (psi)*	18	24
USP Class VI	Yes	No

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



Pump life comparison data depicts hours until failure of 1/4" ID x 3/8" OD tubing. 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 performance of tubing in peristaltic pumping applications is affected by the conditions of use and equipment utilized, along with size and wall thickness of the tubing tested. The data is presented for information only and should not be utilized for specification purposes.



Saint-Gobain Performance Plastics Corporation  
2664 Gilchrist Road, Akron, OH 44305  
330-798-9240 • 800-798-1554 • 330-798-6968  
www.tygon.com

**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 out 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.