



# Tygon® 2375-C

## Ultra Chemical Resistant Tubing for Chemical Transfer Applications

### Unequaled Chemical Resistance

In the world of chemical transfer, chemical compatibility and flexibility are the two most important performance criteria to ensure optimization of the performance. Tygon® 2375-C tubing is specially engineered to deliver just that outstanding performance in an environment where harsh chemicals are used in either industrial or institutional cleaning applications to ensure sanitation and hygiene safety. To assure our customers whose application will be using tubing to transfer chemicals used for final products that require FDA approval, Tygon® 2375-C tubing brings you that assurance due to its compliance with FDA 21 CFR 177.1520.

Tygon® 2375-C Ultra Chemical Resistant Tubing offers an unequaled combination of chemical resistance, clarity and flexibility. It is virtually unaffected by acids, bases, ketones, salts and alcohols (please see Relative Chemical Resistance Properties chart on the back).

### Environmentally Friendly

Tygon® 2375-C Ultra Chemical Resistant Tubing is environmentally friendly and can be disposed safely. When properly incinerated, it does not release hazardous and corrosive hydrochloride gas, which has been proven to be a contributing factor of acid rain.

### Non-DEHP and Plasticizer-Free

Tygon® 2375-C Ultra Chemical Resistant Tubing is entirely free of plasticizers, eliminating fluid contamination as well as premature brittleness and cracking, commonly seen with many other flexible tubings.



### Features and Benefits

- Outstanding chemical resistance
- Non-DEHP for high purity
- Plasticizer-free for low extractables
- Safer disposal
  - Releases no harmful and corrosive hydrogen chloride gas
- Smoother inner surface
  - Provides better flow and inhibits particulate buildup
- Low sorption
  - Minimizes cross-contamination
  - Maintains media purity
- Clear tubing for easier and better observation

### Regulatory Compliance

- FDA Packaging and Food Contact Substance (FCS) Regulation
- REACH
- RoHS

## Tygon® 2375-C

Part Number	ID	OD	Wall Thickness	Min. Bend Radius	Max. Working Pressure	Vacuum Rating
	(in)	(in)	(in)	(in)	73°F (psi)*	73°F (inHg)
AIC00002	1/16	1/8	1/32	1/4	40	29.9
AIC00003	1/16	3/16	1/16	1/8	65	29.9
AIC00004	3/32	5/32	1/32	1/4	25	29.9
AIC00007	1/8	1/4	1/16	1/4	40	29.9
AIC00009	5/32	7/32	1/32	1/4	20	29.9
AIC00012	3/16	5/16	1/16	1/2	30	29.9
AIC00017	1/4	3/8	1/16	3/4	25	29.9
AIC00022	5/16	7/16	1/16	1-1/4	20	29.9
AIC00027	3/8	1/2	1/16	1-1/2	17	29.0
AIC00029	3/8	5/8	1/8	1-1/8	25	29.9
AIC00038	1/2	3/4	1/8	1-1/2	25	29.9
AIC00046	5/8	7/8	1/8	2-1/2	20	29.9
AIC00053	3/4	1	1/8	2-3/4	17	20.0
AIC2064	1	1-3/8	3/16	3-1/4	19	25.0

\*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) 15 sec	D2240	75
Color	—	Clear
Tensile Strength, psi (MPa) (at break)	D412	1900 (13.1)
Ultimate Elongation, %	D412	850
Tear Resistance, lb-f/inch (kN/m)	D1004	240 (42.0)
Specific Gravity	D792	0.90
Water Absorption, % at 73°F (23°C) for 24 hrs.	D570	0.04
Compression Set Constant Deflection, % at 158°F (70°C) for 22hrs.	D395 Method B	100
Maximum Recommended Operating Temp., °F (°C)	—	130 (54)
Brittleness by Impact Temp., °F (°C)	D746	-103 (<-75)
Low Temp. Flexibility, °F (°C)	—	-103 (<-75)
Tensile Stress, psi (MPa) @ 100% Elongation	D412	425 (2.9)
Tensile Set, %	D412	300

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\*

Tubing	Acids			Bases			Salts	Alcohols	Ketones
	Conc.	Med.	Weak	Conc.	Med.	Weak			
Tygon® 2375-C	F	E	E	E	E	E	E	E	F
Fluoroelastomers	E	E	E	U	F	F	E	F	U
Urethane	U	U	U	U	F	F	F	U	U
PVC	F	E	E	E	E	E	E	F	U
Thermoplastic Rubber	U	F	F	F	E	E	E	F	U
Neoprene	U	F	E	E	E	E	E	E	U
Nitrile Rubber	F	F	E	U	E	E	E	E	U
Silicone	U	U	U	U	F	F	F	F	U
EVA	U	F	E	F	E	E	E	E	U

E = Excellent F = Fair U = Unsatisfactory

\*All tests conducted at room temperature.

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.

**TYGON® 2375-C TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.**

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**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.

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