

TYGON®
Excellence By Design





Tygon® 2375

Ultra Chemical Resistant Tubing for Chemical Transfer Applications

Unequaled Chemical Resistance

In chemical transfer applications, chemical compatibility and flexibility are the two most important criteria to ensure performance optimization. Tygon 2375 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. Tygon 2375 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.

Non-DEHP and Plasticizer-Free

Tygon 2375 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

*Not recommended for use in higher temperature applications.

SAINT-GOBAIN

Tygon® 2375

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Tygon 2375

Part Number	ID	OD	Wall Thickness	Min. Bend Radius	Max. Working Pressure	Vacuum Rating
	(in)	(in)	(in)	(in)	73°F (psi)*	73°F (inHg)
AJK00002	1/16	1/8	1/32	1/4	40	29.9
AJK00003	1/16	3/16	1/16	1/8	65	29.9
AJK00004	3/32	5/32	1/32	1/4	25	29.9
AJK00007	1/8	1/4	1/16	1/4	40	29.9
AJK00009	5/32	7/32	1/32	1/4	20	29.9
AJK00012	3/16	5/16	1/16	1/2	30	29.9
AJK00017	1/4	3/8	1/16	3/4	25	29.9
AJK00022	5/16	7/16	1/16	1-1/4	20	29.9
AJK00027	3/8	1/2	1/16	1-1/2	17	29.0
AJK00029	3/8	5/8	1/8	1-1/8	25	29.9
AJK00038	1/2	3/4	1/8	1-1/2	25	29.9
AJK00046	5/8	7/8	1/8	2-1/2	20	29.9
AJK00053	3/4	1	1/8	2-3/4	17	20.0
AJK2064	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	Alcohol-Ethanol	Ketones
	Conc.	Med.	Weak	Conc.	Med.	Weak			
Tygon 2375	F	E	E	E	E	E	E	E	F
Fluoroelastomers	E	E	E	U	F	F	E	U	U
Urethane	U	U	U	U	F	F	F	U	U
PVC	F	E	E	E	E	E	E	U	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.

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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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