

TYGON® 2475 High-Purity Tubing

Overview

TYGON® 2475 high-purity tubing is a plasticizer-free tubing utilizing the latest polymer technology to provide an optical clear and flexible tubing choice for sensitive fluid transfer applications. TYGON® 2475 is hydrophobic and will resist the absorption and adsorption of aqueous fluids. The reduction in sorption minimizes the risk of fluid alteration in single or repeated use applications.

The smooth inner surface of TYGON® 2475 inhibits particulate entrapment tubing wall and reduces the potential for bacterial growth and contamination.

Features and Benefits

- Exceptionally low absorption and adsorption compared to silicone
- Smooth inner surface inhibits particulate entrapment
- Environmentally safe to dispose and reduces disposal costs
- Highly resistant to aggressive cleaners and sanitizers
- Plasticizer free
- Meet all USP Class VI and FDA criteria

Typical Applications

- Aseptic filling and dispensing systems
- Cosmetic production
- Diagnostic equipment
- Food & beverage processing
- Laboratory analytical instrumentation
- Nuclear equipment
- Infusion sets for parenteral and drugs
- Cell and tissue culture transport





Gas (Ethylene Oxide) : Yes		
Radiation : Up to 45 kGy		
Typical Physical Properties of TYGON 2475 Tubing		
Property	Value	Test Method
Colour	Clear	-
Durometer Hardness Shore A, 15 seconds	72	ASTM D 2240-97
Continuous Operating Temperature, °F (°C)	125 (52)	-
Brittleness at Temperature, °F (°C)	-108 (-78)	ASTM D 746-95
Low Temperature Flexibility, °F (°C)	-94 (-70)	ASTM D 380-87
Water Absorption, % 24 hrs. @ 23°C	<0.01	ASTM D 570-95
Unless otherwise noted, all tests were conducted at room temperature (73°F). Valu molded ASTM durometer buttons.	ues shown were determined on 0.075" thick extruded strip	of 0.075"thick molded ASTM plaques or
*Working pressures are calculated at a 1:5 ratio relative to burst pressure us	sing ASTM D1599	

Dimensional Guidance of TYGON 2475 Tubing										
Part Number	I.D. In. (mm)	O.D. In. (mm)	Wall Thickness In. (mm)	Length Ft. (M)	Minimum Bend Radius	Maximum Working Pressure	Vacuum Rating of Mercury @			
					In. (mm)	23 °C or 73 °F psi (bar)	In. at 73 °F`	mm at 23 °C		
ACG00003	1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	50 (15.2)	1/8 (3)	85 (5.8)	29.9	760		
ACG00007	1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	50 (15.2)	1/4 (6)	50 (3.4)	29.9	760		
ACG00012	3/16 (4.8)	5/16 (7.9)	1/16 (1.6)	50 (15.2)	1/2 (13)	40 (2.7)	29.9	760		
ACG00017	1/4 (6.4)	3/8 (9.5)	1/16 (1.6)	50 (15.2)	3/4 (19)	30 (2.06)	29.9	760		
ACG00022	5/16 (7.9)	7/16 (11.1)	1/16 (1.6)	50 (15.2)	1-3/8 (35)	18 (1.2)	29.9	760		
ACG00027	3/8 (9.5)	1/2 (12.7)	1/16 (1.6)	50 (15.2)	1-3/4 (44)	20 (1.4)	29.9	760		
ACG00038	1/2 (12.7)	3/4 (19.0)	1/8 (3.2)	50 (15.2)	1-1/2 (38)	29 (2)	29.9	760		
ACG00046	5/8 (15.9)	7/8 (22.2)	1/8 (3.2)	50 (15.2)	2-1/4 (57)	25 (1.7)	29.9	760		
ACG00053	3/4 (19.0)	1 (25.4)	1/8 (3.2)	50 (15.2)	3-1/4 (83)	21 (1.4)	29.9	760		
ACG42064	1 (25.4)	1-3/8 (34.9)	3/16 (4.8)	25 (7.6)	3 (82)	20 (1.4)	29.9	760		

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 pressures, 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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