



**Soft,
Clear,
Chemical
Resistant**



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 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 Tubing brings you the assurance due to its compliance with FDA 21 CFR 177.1520.

Tygon® 2375 Ultra Chemical Resistant Tubing offers an unequalled combination of chemical resistance, clarity and flexibility. It is virtually unaffected by acids, bases, ketones, salts and alcohols (please see Chemical Resistance Properties or contact us for further information).

Environmentally Friendly

Tygon® 2375 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

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.

Regulatory Compliance

- FDA packaging and Food Contact Substances (FCS) Regulation
- REACH
- RoHS

Features and Benefits

- Outstanding Chemical Resistance
- Non-DeHP for High Purity
- Plasticizer-Free – 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 better and easier observation

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OPTUBUS believes that the information in this technical data sheet is an accurate description of the typical uses of the product. OPTUBUS, however, disclaims any liability for incidental or consequent damages, which may result from the use of the product that are beyond its control. Therefore it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficiency and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

Tygon® 2375 Standard Sizes

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
TY1,59UR3,18	1,59 mm (1/16")	3,18 mm (1/8")	0,79 mm (1/32")	6,4 mm	2,7 bar	760 mmHg
TY1,59UR4,76	1,59 mm (1/16")	4,76 mm (3/16")	1,59 mm (1/16")	3,2 mm	4,4 bar	760 mmHg
TY2,38UR3,97	2,38 mm (3/32")	3,97 mm (5/32")	0,79 mm (1/32")	6,4 mm	1,7 bar	760 mmHg
TY3,18UR6,35	3,18 mm (1/8")	6,35 mm (1/4")	1,59 mm (1/16")	6,4 mm	2,7 bar	760 mmHg
TY3,97UR5,56	3,97 mm (5/32")	5,56 mm (7/32")	0,79 mm (1/32")	6,4 mm	1,3 bar	760 mmHg
TY4,76UR7,94	4,76 mm (3/16")	7,94 mm (5/16")	1,59 mm (1/16")	12,7 mm	2,0 bar	760 mmHg
TY6,35UR9,53	6,35 mm (1/4")	9,53 mm (3/8")	1,59 mm (1/16")	19,0 mm	1,7 bar	760 mmHg
TY7,94UR11,11	7,94 mm (5/16")	11,11 mm (7/16")	1,59 mm (1/16")	31,7 mm	1,3 bar	760 mmHg
TY9,53UR12,7	9,53 mm (3/8")	12,7 mm (1/2")	1,59 mm (1/16")	38,1 mm	1,1 bar	736 mmHg
TY9,53UR15,88	9,53 mm (3/8")	15,88 mm (5/8")	3,18 mm (1/8")	28,5 mm	1,7 bar	760 mmHg
TY12,7UR19,05	12,7 mm (1/2")	19,05 mm (3/4")	3,18 mm (1/8")	38,1 mm	1,7 bar	760 mmHg
TY15,88UR22,23	15,88 mm (5/8")	22,23 mm (7/8")	3,18 mm (1/8")	63,5 mm	1,3 bar	760 mmHg
TY19,05UR25,4	19,05 mm (3/4")	25,4 mm (1")	3,18 mm (1/8")	69,8 mm	1,1 bar	508 mmHg
TY25,4UR34,93	25,4 mm (1")	34,93 (1-3/8")	4,76 mm (3/16")	82,5 mm	1,3 bar	635 mmHg

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

Typical Physical Properties of Tygon® 2375

Property	ASTM Method	Value of Rating
Durometer Hardness	D2240	75° Shore A, 15s
Color	-	clear
Tear Resistance	D1004	42 kN/m
Specific Gravity	D792	0.90
Water Absorbtion 23°C for 24 hours	D570	0,04%
Compression Set Constant Deflection 70° C for 22 hours	D395	100,00%
Tensile Strength (at break)	D412	1900 psi (13,1 MPa)
Ultimate Elongation	D412	850,00%
Tensile Stress @100% Elongation	D412	425 psi (2,9 MPa)
Tensile Set	D412	300,00%
Max. Recommended Operating Temp.	-	54° C

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.

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 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

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