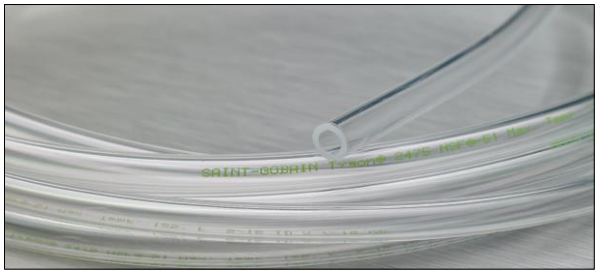
TPE, TEEE TYGON® pharmaceutical and biotechnological



TYGON® 2475, TYGON® 2475 IB

Hose for high-purity applications, with low absorption and adsorption

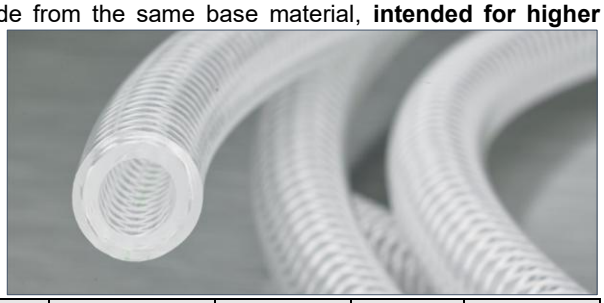
Material:	polyolefin
Working temperature:	up to +52°C
Brittleness temperature:	-78°C
Hardness:	72 Shore (A)
Density:	0.9 g/cm^3

TYGON® 2475:

Colourless, transparent, flexible hose for biopharmaceutical applications, completely free of plasticisers and oils. Used in the cosmetics industry, aseptic filling and dosing systems, diagnostic equipment, nuclear instruments, laboratory analysers, and in biotechnology for transporting cell and tissue cultures. It features hydrophobicity (non-wettability) and very low absorption and adsorption of water-based fluids compared with PVC, as well as lower gas permeability than silicone hoses, protecting sensitive fluids against oxidation. This minimises the risk of altering fluid properties even with repeated hose use. The glassy-smooth, pore-free inner surface prevents deposits and adhesion of contaminants, aiding complete fluid drainage and hose cleaning. Resistant to chemical cleaning and disinfecting agents. It has good chemical resistance to a range of substances: acids, bases, salts, as well as alcohols and ketones. Not recommended for hydrocarbons. Compliant with USP<88> Class VI . The hygienic properties are confirmed by the Saint-Gobain validation guide for this hose. Sterilisation by ethylene oxide or irradiation (up to 4.5 kGy) is possible. Compliant with RoHS 2011/65/EU and REACH 1907/2006/EU. Can be used as a single-use or reusable product. Disposal of used hoses releases no hazardous substances (e.g. chlorine); combustion produces only carbon dioxide and water. Pressure safety factor 5:1. Fitting onto hose tails and ends with clamps.

TYGON® 2475 IB:

Pressurised, braid-reinforced version of the TYGON® 2475 hose made from the same base material, **intended for higher pressures** e.g. single-use ultrafiltration / diafiltration systems, chromatography, water for injection (WFI), deionised water, pharmaceutical and cosmetic substances. Pressure safety factor 4:1. Fitted onto hose tails and ends using clamps and ferrules.



index	diameter inner [mm]	diameter outer [mm]	wall wall [mm]	working pressure 23°C [bar]	vacuum 23°C [mm Hg]	bending radius [mm]	weight [kg/m]	length full roll [m]
TYGON® 2475								
VE-ACG00003	1,6	4,8	1,6	5,8	760	3,2	0,014	15
VE-ACG00007	3,2	6,4	1,6	3,4	760	6,4	0,022	15
VE-ACG00012	4,8	8,0	1,6	2,7	760	12,7	0,029	15
VE-ACG00017	6,4	9,6	1,6	2,1	760	19,1	0,036	15
VE-ACG00022	8,0	11,1	1,6	1,2	760	34,9	0,042	15
VE-ACG00027	9,6	12,7	1,6	1,4	760	44,5	0,049	15
VE-ACG00038	12,7	19,0	3,2	2,0	760	38,1	0,141	15
VE-ACG00046	15,9	22,2	3,2	1,7	760	57,2	0,170	15
VE-ACG00053	19,2	25,6	3,2	1,4	760	82,6	0,203	15
VE-ACG42064	25,6	35,2	4,8	1,4	760	76,2	0,412	7,5
TYGON® 2475 IB								
VE-ACX00019*	6,4	12,7	3,2	15,5	760	9,5	0,085	15
VE-ACX00029	9,5	15,9	3,2	14,5	760	25,4	0,115	15
VE-ACX00038	12,7	19,1	3,2	15,9	760	25,4	0,144	15
VE-ACX00046	15,9	22,3	3,2	9,3	760	44,5	0,173	15
VE-ACX00054	19,0	27,0	4,0	9,3	760	31,8	0,260	15
VE-ACX42064	25,4	35,0	4,8	8,6	635	88,9	0,410	7,5
VE-ACX06074	38,0	50,8	6,4	~	~	~	0,803	3

* - minimum order quantities apply for this size