TPE, TEEE TYGON® universal and laboratory



TYGON® A-60-G

Universal temperature-resistant hose for peristaltic pumps

Material:	TPE (Norprene®)
Working temperature:	up to +135°C
Brittleness temperature:	-60°C
Hardness:	61 Shore (A)
Density:	0.98 g/cm^3

Black, flexible universal hose made of a special thermoplastic elastomer (TPE) with exceptional resistance to ageing, weather, UV radiation and ozone, and good chemical resistance. Temperature-resistant over a wide range from -60°C to +135°C. Extremely flexible, elastic, with high fatigue resistance to deformation, resistant to abrasion and cracking. **Excellent for use in peristaltic pumps**. Used for transfer and dosing in industry and services, e.g. dispensing soap and disinfectants, cleaning agents, caustic soda, pickling and electroplating chemicals, in glass and window washing systems etc. The soft hose material is highly flexible and ensures excellent service life of up to 1000 hours in a peristaltic pump. The hose is a cost-effective alternative to hoses commonly made of traditional rubber compounds such as EPDM or chloroprene. It offers good chemical resistance to a range of chemicals, particularly inorganic acids and bases, and oxidising agents such as hydrogen peroxide, sodium hypochlorite or ozone (300 pphm). Poor resistance to fats, not recommended for hydrocarbons. It features low gas permeability compared with rubber hoses. The hose can be joined by welding. The thick-walled VACUUM version is designed for continuous vacuum operation. Steam sterilisation possible. Compliant with REACH regulation 1907/2006/EU – contains no hazardous or prohibited substances. Pressure safety factor 5:1. Mounting on hose tails and ends using clamps.

index	*(index old)*	diameter inner [mm]	diameter outer [mm]	wall wall [mm]	working pressure 23°C / 82°C [bar]	vacuum 23°C / 82°C [mm Hg]	bending radius [mm]	version**	weight [kg/m]	length full length [m]
VE-AFL00003	VE-R6002-23	1,6	4,8	1,6	2,34 / 1,45	760 / 760	6,4	STD	0,016	15
VE-AFL00007	VE-R6004-23	3,2	6,4	1,6	1,31 / 0,83	760 / 760	12,7	STD	0,024	15
VE-AFL00008	VE-R6004-43	3,2	9,5	3,2	2,34 / 1,45	760 / 760	12,7	VAC	0,062	15
VE-AFL00012	VE-R6006-23	4,8	7,9	1,6	0,9 / 0,55	760 / 760	19,1	STD	0,030	15
VE-AFL00013	VE-R6006-33	4,8	9,5	2,4	1,31 / 0,83	760 / 760	12,7	STD	0,052	15
VE-AFL00015*	VE-R6006-63	4,8	14,3	4,8	2,34 / 1,45	760 / 760	6,4	VAC	0,140	15
VE-AFL00017	VE-R6008-23	6,4	9,5	1,6	0,69 / 0,41	760 / 401	22,2	STD	0,038	15
VE-AFL00018	VE-R6008-33	6,4	11,1	2,4	1,03 / 0,62	760 / 760	19,1	STD	0,063	15
VE-AFL00019	VE-R6008-43	6,4	12,7	3,2	1,31 / 0,83	760 / 760	19,1	STD	0,093	15
VE-AFL00020*	VE-R6008-63	6,4	15,9	4,8	1,79 / 1,1	760 / 760	12,7	VAC	0,163	15
VE-AFL00022	VE-R6010-23	7,9	11,1	1,6	0,55 / 0,34	513 / 257	31,8	STD	0,047	15
VE-AFL00023	VE-R6010-33	7,9	12,7	2,4	0,83 / 0,48	760 / 635	25,4	STD	0,076	15
VE-AFL00026	VE-R6010-83	7,9	20,6	6,4	1,93 / 1,17	760 / 760	12,7	VAC	0,278	15
VE-AFL00027	VE-R6012-23	9,5	12,7	1,6	0,48 / 0,28	358 / 178	34,9	STD	0,055	15
VE-AFL00028	VE-R6012-33	9,5	14,3	2,4	0,69 / 0,41	760 / 381	38,1	STD	0,088	15
VE-AFL00029	VE-R6012-43	9,3	15,9	3,3	0,9 / 0,55	760 / 704	28,6	STD	0,128	15
VE-AFL00032	VE-R6014-23	11,1	14,3	1,6	0,41 / 0,28	127 / 0	57,2	STD	0,063	15
VE-AFL00036	VE-R6016-23	12,7	15,9	1,6	0,41 / 0,21	381 / 0	76,2	STD	0,070	15
VE-AFL00037	VE-R6016-33	12,7	17,5	2,4	0,55 / 0,34	508 / 254	57,2	STD	0,112	15
VE-AFL00038	VE-R6016-43	12,7	19,1	3,2	0,69 / 0,41	752 / 396	28,6	STD	0,157	15
VE-AFL00045	VE-R6020-33	15,9	20,6	2,4	0,48 / 0,28	254 / 127	82,6	STD	0,132	15
VE-AFL00046	VE-R6020-43	15,9	22,2	3,2	0,55 / 0,34	508 / 251	69,9	STD	0,185	15
VE-AFL00053	VE-R6024-43	19,1	25,4	3,2	0,48 / 0,28	353 / 175	88,9	STD	0,216	15
VE-AFL00062	VE-R6032-43	25,4	31,8	3,2	0,41 / 0,21	127 / 127	127	STD	0,282	15

Notes: * - minimum order quantities apply for these sizes; ** - version: STD – STANDARD, VAC – VACUUM.

HOSE SERVICE LIFE IN A PERISTALTIC PUMP

Service life in operating hours (h) until hose failure for various hose types. Hose 6.4 x 9.5 mm, standard 3-roller peristaltic pump, 600 rpm at 23°C, no back pressure. Indicative data.

