

TYGON® E-65-F

Temperature-resistant, durable hose for peristaltic pumps and food substance dosing

Material:	TPE (thermoplastic elastomer)
Working temperature:	from -80°C to +135°C
Hardness:	65 Shore (A)
Density:	0,89 g/cm^3

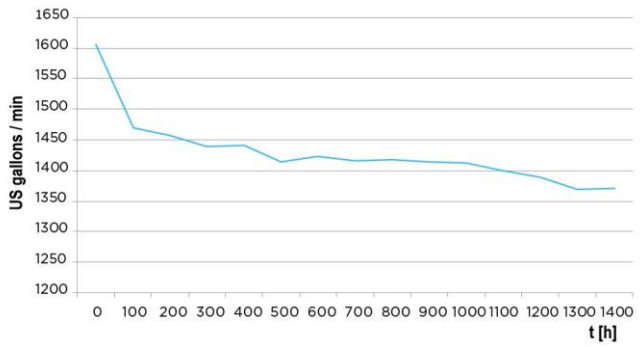
White, flexible universal hose made of a special thermoplastic elastomer (TPE). A hose with exceptional resistance to ageing, weather conditions, UV radiation and ozone, with good chemical resistance. Temperature-resistant across a wide range from -80°C to +135°C. Extremely flexible and elastic, kink-resistant, retaining its shape during easy and fast installation. A hose with high fatigue resistance to deformation, resistant to abrasion and cracking. **Excellent for use in peristaltic pumps.** Resistant to repeated sterilisation (up to five times without change in hose life). Used for transfer and dosing of cleaning chemicals in industry and services in CIP (*Clean-in-Place*) and SIP sterilisation (*Steam-in-Place*) and for universal industrial and laboratory applications. The soft hose material is highly flexible and offers excellent service life of over 1000 operating hours in a peristaltic pump. The hose is an advantageous alternative to the commonly used PVC or silicone hoses. It has good chemical resistance to a range of chemicals, particularly acids and bases, oxidising agents such as hydrogen peroxide, sodium hypochlorite or ozone. It features low gas permeability compared with rubber hoses.

Complies with European hygiene and food-contact requirements: 1935/2004/EC and 10/2011/EU (simulant liquids B and D1, hydrated food, above 20% alcohol and dairy products – time and temperature per certificate). Meets the American FDA requirements 21 CFR 177.2600, NSF-51. Compliant with REACH regulation 1907/2006/EU – contains no hazardous or prohibited substances. Steam, ethylene oxide or radiation sterilisation possible. Pressure safety factor 5:1. Fitting onto hose tails and ends with clamps.

index	diameter inner [mm]	diameter outer [mm]	wall wall [mm]	working pressure 23°C / 82°C [bar]	vacuum 23°C [mm Hg]	bending radius [mm]	weight [kg/m]	length full roll [m]
VE-AND00003	1,6	4,8	1,6	2,20 / 1,31	760	4,8	0,014	15
VE-AND00007*	3,2	6,4	1,6	1,31 / 0,76	760	15,9	0,021	15
VE-AND00012*	4,8	7,9	1,6	1,03 / 0,55	760	28,6	0,028	15
VE-AND00017	6,4	9,5	1,6	0,90 / 0,55	760	25,4	0,034	15
VE-AND00019*	6,4	12,7	3,2	1,31 / 0,76	760	15,9	0,084	15
VE-AND00022*	8,0	11,2	1,6	0,76 / 0,41	760	68,5	0,043	15
VE-AND00029	9,5	15,9	3,2	0,76 / 0,34	635	47,6	0,114	15
VE-AND00038*	12,7	19,1	3,2	0,90 / 0,41	760	44,5	0,142	15
VE-AND00046*	15,9	22,2	3,2	0,76 / 0,41	760	68,5	0,168	15
VE-AND00053*	19,1	25,4	3,2	0,69 / 0,41	635	85,7	0,196	15

* - minimum order quantities apply to these sizes;

HOSE SERVICE LIFE IN A PERISTALTIC PUMP





The TYGON® E-65-F hose features high service life and flow stability when operating in a peristaltic pump, as shown by the test results – graph of pump flow and operating time. Flow in gallons per minute (1 US gallon = 3.785 l). Test conditions: 600 rpm at 23°C, no back pressure. Testing was stopped after 1400 hours, with the hose still functioning correctly and providing flow stability.