

TYGON hoses[®] for food products



TYGON[®] S3[™] E-LFL

The most flexible food hose for peristaltic pumps

Material: PVC (special)

Max. operating temperature + 74°C

Brittleness temp: - 46°C

Hardness: 56° Shore (A)

Density: 1.17 g/cm³

A colourless, transparent, soft and highly flexible hose with an exceptionally long service life in peristaltic pump applications (LFL - "long flex life"). It has high fatigue resistance and exceptional resistance to peeling ('spallation' - the spalling of hose material particles due to the pressure of the pump rotor). One of the best TYGON[®] hoses for peristaltic pumps - service life of 1000 h (at 0 bar back pressure). Resistance to particle flaking eliminates the need for frequent filter changes and minimises the risk of substance contamination. Suitable for highly viscous, sticky and shear-sensitive fluids. Widely used in the food, cosmetic, pharmaceutical and chemical industries, manufacturing and laboratories. The hose is free of phthalates and BPA (Bisphenol A). Meets hygiene and food contact requirements: European 1935/2004/EC and 10/2011 EU (for conditions and substances according to certificate), US FDA, NSF, USP Class VI, international ISO 10993, Japanese #370/1959. Steam or ethylene oxide sterilisation possible. REACH and California Proposition 65 compliant - contains no hazardous or prohibited substances. Full hose reel length 7.5 m (from 19 mm internal diameter - 3 m).

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	Operating pressure* 23°C [bar]	vacuum 23°C [mm Hg]	bend radius [mm]
VE-AVX42003	1,6	4,8	1,6	3,5	760	6,4
VE-AVX42007	3,2	6,4	1,6	2,3	760	12,7
VE-AVX42012	4,8	7,9	1,6	1,7	760	19
VE-AVX42017	6,4	9,5	1,6	1,4	381	25,4
VE-AVX42019	6,4	12,7	3,2	2,4	760	19
VE-AVX42022	7,9	11,1	1,6	1,1	254	31,8
VE-AVX42029	9,5	15,9	3,2	1,7	760	25,4
VE-AVX42038	12,7	19,1	3,2	1,4	508	38,1
VE-AVX06057	19	31,8	6,4	1,7	760	44,4
VE-AVX06064	25,4	35	4,8	1	127	82,5

* - working pressure determined in relation to burst pressure with a safety factor of 1:5

