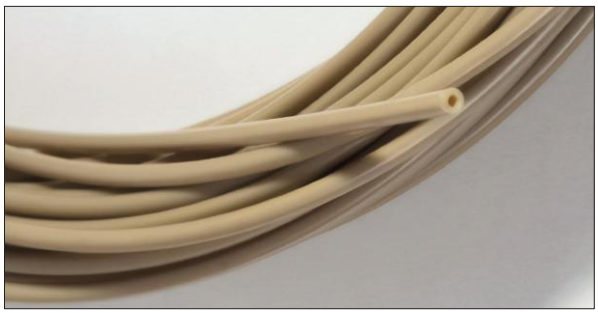


VERSILON™ PEEK

Capillary hose for chromatography (HPLC), high-pressure

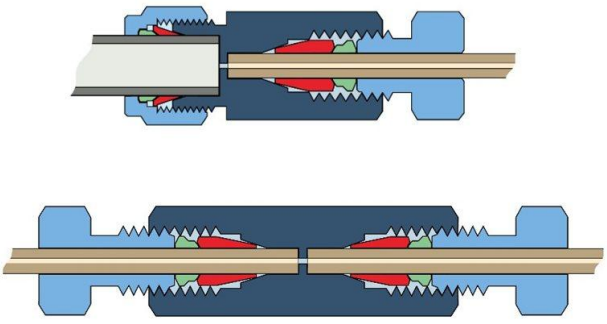
Material: PEEK (polyetheretherketone)
Working temperature: from -60°C to +250°C (briefly up to +310°C, working pressure above +100°C depends on temperature)
Hardness: 75 Shore (A)
Density: 1.31 g/cm^3

Hose designed specifically for **high-performance liquid chromatography** (HPLC - *High-Performance Liquid Chromatography*), where the analysed liquid is delivered through a narrow tube (capillary) under high pressure of several hundred bar. The VERSILON™ PEEK capillary hose made of polyetheretherketone (PEEK) is an alternative to stainless steel tubing, offering good corrosion resistance and suitability where contact between the analysed liquid and metal is undesirable. Polyetheretherketone (PEEK) has temperature resistance similar to PTFE, but is stronger and abrasion-resistant. The VERSILON™ PEEK capillary hose can operate at working pressures up to 230 bar, is highly chemical-resistant, dimensionally stable, flexible, easy to cut, smooth, resistant to leaching and steam. Flame-retardant (UL 94 V-0). Besides chromatography, hose applications may include medicine, the chemical and pharmaceutical industries, semiconductor production, aviation and nuclear technology. Pressure safety factor 4:1. Due to the high pressure, special fittings from equipment manufacturers or chromatography ends from the PRECISION FITTINGS range are used to connect the hose. The connection is made by crimping on the outer diameter. Hose available on special order. Minimum order quantities apply.

index	diameter inner [mm]	tolerance diameter inner ± [mm]	diameter outer [inch]	diameter outer [mm]	diameter tolerance outer ± [mm]	wall wall [mm]	pressure working 23°C [bar]	pressure working 200°C [bar]	weight [kg/m]	length full length [m]
VE-ACUPEEK-025	0,25	0,05	1/16"	1,57	0,08	0,66	230	59	0,002	76
VE-ACUPEEK-050	0,51	0,05	1/16"	1,57	0,08	0,53	197	51	0,002	76
VE-ACUPEEK-076	0,76	0,05	1/16"	1,57	0,08	0,41	150	39	0,002	76
VE-ACUPEEK-102	1,02	0,05	1/16"	1,57	0,08	0,28	100	26	0,001	76
VE-ACUPEEK-160	1,57	0,1	1/8"	3,18	0,1	0,81	147	38	0,008	76
VE-ACUPEEK-203	2,03	0,1	1/8"	3,18	0,1	0,58	98	26	0,006	76

PEEK HOSES FOR HPLC CHROMATOGRAPH





Special fittings with two clamping rings are used to connect PEEK hoses to the HPLC chromatograph column *(see the "Connectors" section in PRECISION FITTINGS)*.