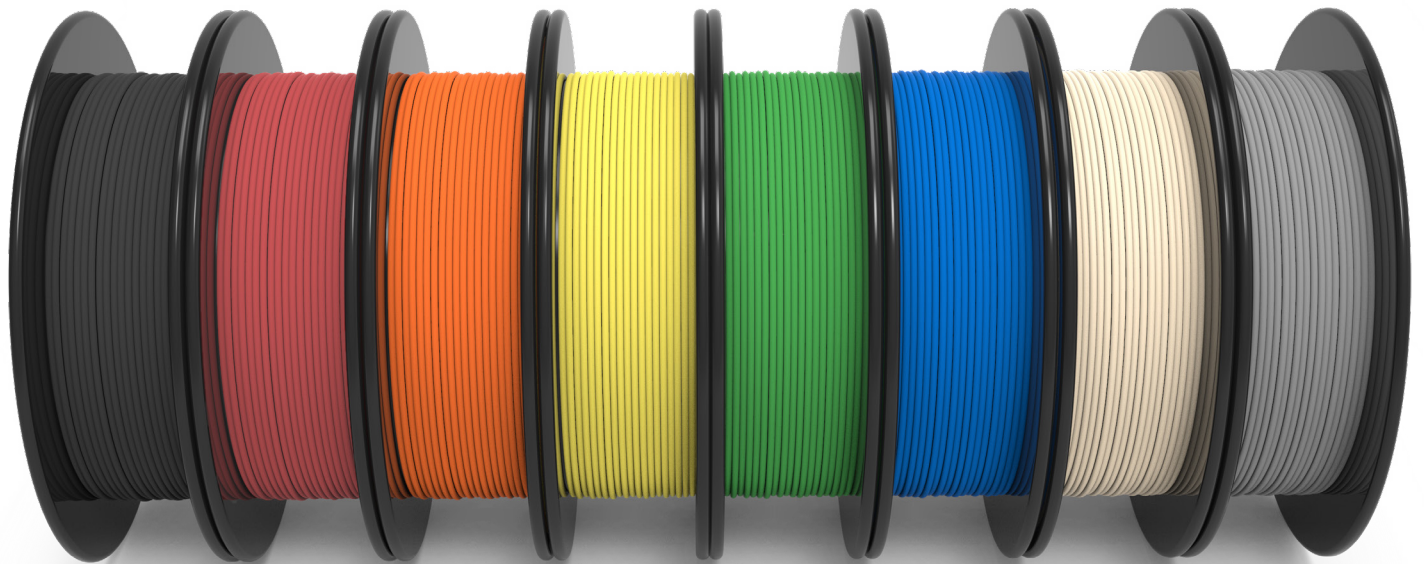


# PEEK® TUBING

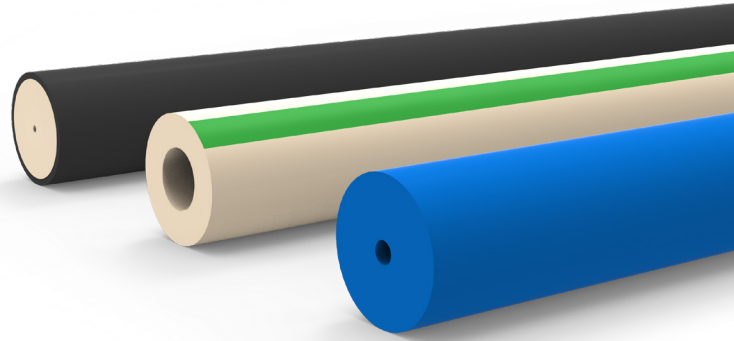


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## DESCRIPTION

PEEK® tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel. The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.



## UNIVERSAL FEATURES

Chemical resistance at 20°C (68°F) | Chemical resistance at 200°C (420°F) for most chemicals  
| Chemical resistance at 14°C (284°F) for ethylene glycol (50%) | For use with Valco fittings, Valco ferrules, and Cheminert fittings | Maximum recommended working temperature < 100°C (continuous) for 1/16" OD tubing with ID up to .75 mm

## ABOUT PEEK MATERIAL

Considered relatively inert and biocompatible, poly-etheretherketone tubing can withstand temperatures up to 100°C. Under the right circumstances, .002" - .020" ID tubing can be used up to 5000 psi for a limited time, and 0.030" to 3000 psi. Larger IDs are typically good to 500 psi. These limits will be substantially reduced at elevated temperatures and in contact with some solvents or acids.

Its mechanical properties allow PEEK to be used instead of stainless in many situations and in some environments where stainless would be too reactive. However, PEEK can be somewhat absorptive of solvents and analytes, notably methylene chloride, DMSO, THF, and high concentrations of sulfuric and nitric acid. This tubing is highly prone to "kinking", or sealing off, if held in a sharp bend over time.

## BUNDLED PEEK TUBING

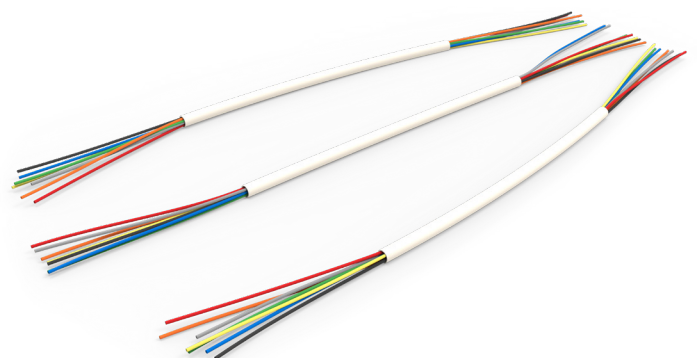
This concept greatly simplifies the installation of tubing from the point of origin to the final prep area. We can wrap as many as sixteen 1/16" tubes and bundle them inside polyolefin shrink wrap so that you only do one run for 16 tubes. Any extra or redundant tubes save time and labor in future replacement and maintenance.

Typical use is with color-coded PEEK tubing, but we can also bundle other polymers as well as stainless steel, specialty metals, or any combination.



## BENEFITS

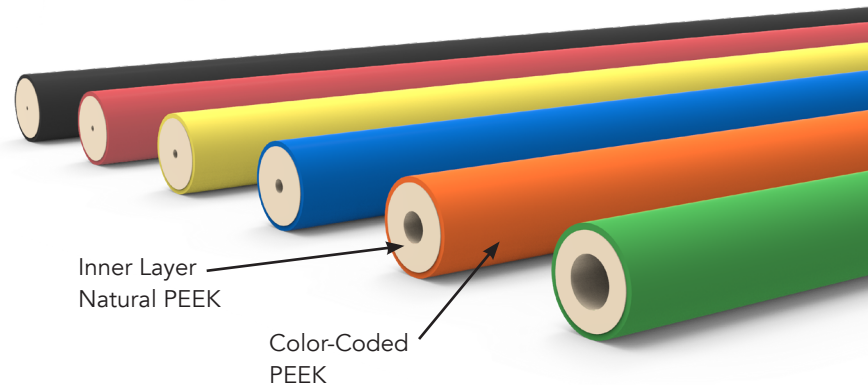
Simplifies installation | Up to 16 tubes in one run | Polymeric or metallic tubing, or any combination



## DUAL LAYER PEEK TUBING

Our Dual Layer PEEK tubing eliminates any concern that a critical sample stream could be contaminated by pigments used to color code the tubing. It looks like any other color-coded tubing at first glance, but a closer look reveals that the pigmented layer surrounds a separate but integrally-bonded inner layer of natural PEEK.

The 1/16" OD tubing is available in standard sizes, or in OEM quantities with any ID you specify, from .004" to .030". The ID tolerance of  $\pm 0.0005$ " for ID's smaller than .010" is equivalent to or better than that of tubing typically sold as premium grade.



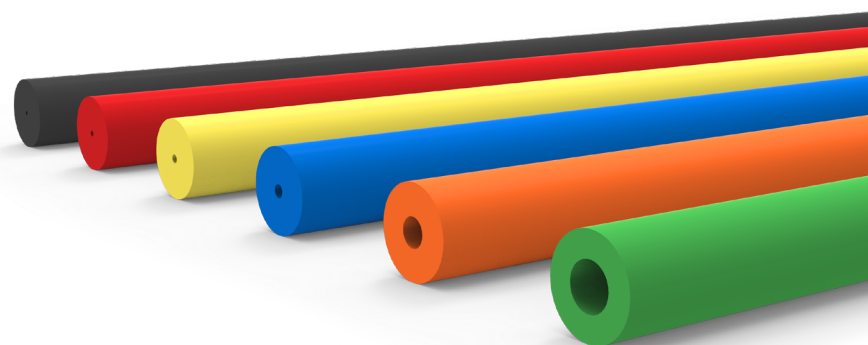
## FEATURES

Inner layer of natural PEEK, outer layer of color-coded PEEK | No possibility of stream coming in contact with coloring agents | Pressure performance equivalent to single layer tubing | 1/16" OD, ID from .004" to .030"

TUBE ID	COLOR	BAR*	PSI*	US PRODUCT #	EU PRODUCT #
.004"	Black	460	6700	MT-T-62004-DL-BK	JR-TD-5804
.005"	Red	460	6700	MT-T-62005-DL-RD	JR-TD-6007
.007"	Yellow	440	6400	MT-T-62007-DL-YL	JR-TD-6008
.010"	Blue	420	6100	MT-T-62010-DL-BL	JR-TD-6009
.020"	Orange	345	5000	MT-T-62020-DL-OR	JR-TD-6010
.030"	Green	262	3800	MT-T-62030-DL-GN	JR-TD-6011

## SOLID COLOR PEEK TUBING

Color-coding identifies the ID of your 1/16" OD PEEK tubing – each ID is coded with a different color.

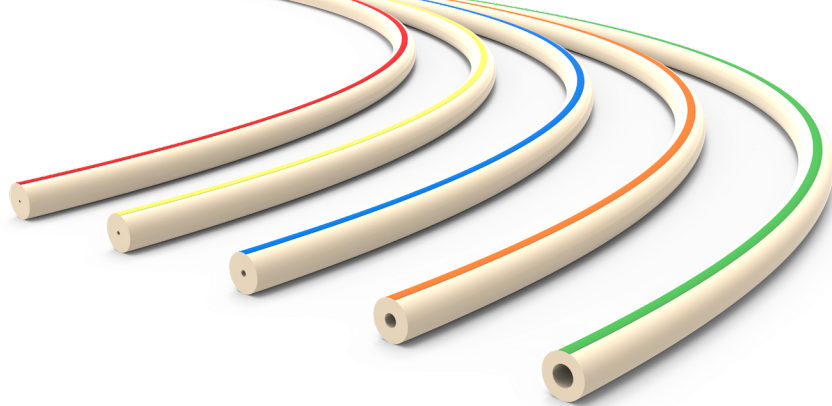


TUBE ID	COLOR	TOLERANCE	BAR*	PSI*	US PRODUCT #	EU PRODUCT #
.004"	Black	$\pm 0.0005$ "	460	6700	MT-T-62004-BK	JR-T-6020
.005"	Red	$\pm 0.0005$ "	460	6700	MT-T-62005-RD	JR-T-6007
.007"	Yellow	$\pm 0.0005$ "	440	6400	MT-T-62007-YL	JR-T-6008
.010"	Blue	$\pm 0.001$ "	420	6100	MT-T-62010-BL	JR-T-6009
.020"	Orange	$\pm 0.001$ "	345	5000	MT-T-62020-OR	JR-T-6010
.030"	Green	$\pm 0.001$ "	262	3800	MT-T-62030-GN	JR-T-6011

\*Recommended maximum permanent working pressure from the burst pressure and the factor 2.5

## STRIPED COLOR-CODED PEEK TUBING

Color-coding identifies the ID of your 1/16" OD PEEK tubing – each ID is coded with a different color. The stripe is added to the outside, so dye never contacts the fluid stream. Available in pre-cut kits and in custom lengths and bulk quantities.



### FEATURES

Tolerance on the OD and ID  $\pm .001''$  | Pre-cut kits of 1/16" OD striped color-coded PEEK tubing includes 15 pieces of tubing: 5 each of 5 cm, 10 cm, and 20 cm pre-cut lengths

TUBE ID	COLOR	BAR*	PSI*	US PRODUCT #	EU PRODUCT #
.005"	Red	460	6700	MT-T-62005-ST-RD	JR-T-98013
.007"	Yellow	440	6400	MT-T-62007-ST-YL	JR-T-98017
.010"	Blue	420	6100	MT-T-62010-ST-BL	JR-T-98025
.020"	Orange	345	5000	MT-T-62020-ST-OR	JR-T-98050
.030"	Green	262	3800	MT-T-62030-ST-GN	JR-T-98075
Super-Kit: 1 of each above					JR-T-98200

### BULK/CUSTOM QUANTITIES

TUBE ID	COLOR	BAR*	PSI*	US PRODUCT #	EU PRODUCT #
.004"	Black	460	6700	MT-T-62004-ST-BK	JR-T-5804
.005"	Red	460	6700	MT-T-62005-ST-RD	JR-T-5999
.007"	Yellow	440	6400	MT-T-62007-ST-YL	JR-T-6000
.010"	Blue	420	6100	MT-T-62010-ST-BL	JR-T-6001
.020"	Orange	345	5000	MT-T-62020-ST-OR	JR-T-6002
.030"	Green	262	3800	MT-T-62030-ST-GN	JR-T-6003
.040"	Grey	179	2600	MT-T-62040-ST-GY	JR-T-60031

\*Recommended maximum permanent working pressure from the burst pressure and the factor 2.5