

## PEEK Tubing

- ▶ 1/16", 1/8", 1.8 mm, or 2.0 mm outside diameter available
- ▶ Biocompatible, inert, and easily cut
- ▶ Great for high pressure applications
- ▶ Maximum continuous use temperature: 100 °C

Upchurch Scientific® PEEK (polyetheretherketone) polymer tubing is biocompatible, chemically inert to most solvents, and can be used to replace stainless steel tubing in most liquid analytical systems. Unlike stainless steel tubing, PEEK tubing is flexible and can be easily cut to desired lengths.

PEEK tubing has a very smooth internal surface, which causes less turbulence than similarly sized metal tubing, contributing to improved resolution of sample bands. Of all our polymer tubing materials, PEEK is the least permeable to gas (see material properties on our website: www.idex-hs.com).

In addition, much of our 1/16" OD tubing is color-coded so different IDs are easily identified. Our proprietary extrusion process ensures color permanence in our tubing.

Our 5' length tubing is rough cut to approximately 5'1". A trim cut should be made before use, especially for smaller ID tubing. PEEK tubing can be cut easily with a razor blade. However for an improved cut, try our Tubing Cutters on page 74.



Part No.	ID	Color	Max. Pressure
<b>PEEK TUBING, 1/16" OD X 5' (1.5 M)</b>			
1559	0.001" (25 µm) ID	Natural	10,000 psi (690 bar)
1560	0.0025" (65 µm) ID	Natural	7,000 psi (483 bar)
★ 1561	0.004" (0.10 mm) ID	Black	7,000 psi (483 bar)
★ 1535	0.005" (0.125 mm) ID	Red	7,000 psi (483 bar)
★ 1562	0.006" (0.15 mm) ID	Purple	7,000 psi (483 bar)
1536	0.007" (0.175 mm) ID	Yellow	7,000 psi (483 bar)
★ 1531	0.010" (0.25 mm) ID	Natural	7,000 psi (483 bar)
★ 1531B	0.010" (0.25 mm) ID	Blue	7,000 psi (483 bar)
★ 1565	0.015" (0.40 mm) ID	Gray	7,000 psi (483 bar)
1532	0.020" (0.50 mm) ID	Orange	7,000 psi (483 bar)
★ 1533	0.030" (0.75 mm) ID	Green	7,000 psi (483 bar)
★ 1538	0.040" (1.00 mm) ID	Natural	5,000 psi (345 bar)
★ 1537	0.055" (1.40 mm) ID	Natural	500 psi (34 bar)
<b>PEEK TUBING, 1/8" OD X 5' (1.5 M)</b>			
1534	0.062" (1.55 mm) ID	Natural	4,000 psi (276 bar)
★ 1544	0.080" (2.00 mm) ID	Natural	3,000 psi (207 bar)
<b>PEEK TUBING, 1.8 MM OD X 5' (1.5 M)</b>			
1539	0.055" (1.40 mm) ID	Natural	500 psi (34 bar)
<b>PEEK TUBING, 2.0 MM OD X 5' (1.5 M)</b>			
1590	0.042" (1.05 mm) ID	Natural	5,000 psi (345 bar)

## APPLICATION NOTE

### What Size PEEK Tubing Should I Use?

- ▶ It is usually safe to use 1/16" OD x 0.010" ID tubing throughout an analytical HPLC system. With a 0.010" ID, the pressure drop across most tubing lengths is negligible, and the ID is small enough to minimize band broadening.
- ▶ High pressure semi-prep LC systems will most likely use 1/8" OD tubing.
- ▶ Use 1.8 mm OD tubing to replace fluoropolymer tubing used in some Pharmacia®/GE Healthcare systems.
- ▶ Use our 1/32" OD tubing for the high pressure flow path of some microbore HPLC systems.
- ▶ Choose 360 µm OD tubing for most capillary systems.
- ▶ PEEK tubing is available in additional sizes and in 50' and 100' lengths. Contact your local Distributor or IDEX Health & Science directly for pricing information.

## SPECIFICATIONS & DETAILS

Tubing OD	OD Tolerance	Tubing ID	ID Tolerance
1/16"	±0.001" (25 µm)	25 µm	±0.0005" (12.5 µm)
1.8 mm	±0.002" (50 µm)	All	±0.001" (25 µm)
2.0 mm	±0.002" (50 µm)	All	±0.001" (25 µm)
1/8"	±0.003" (75 µm)	All	±0.003" (75 µm)