

PEEK Tubing

Durable, Bio-Compatible Tubing for Precision Needs

Precision bore PEEK tubing is designed specifically for modern LC, LCMS and automation usage. PEEK tubing is a flexible alternative to stainless steel tubing in high pressure applications.

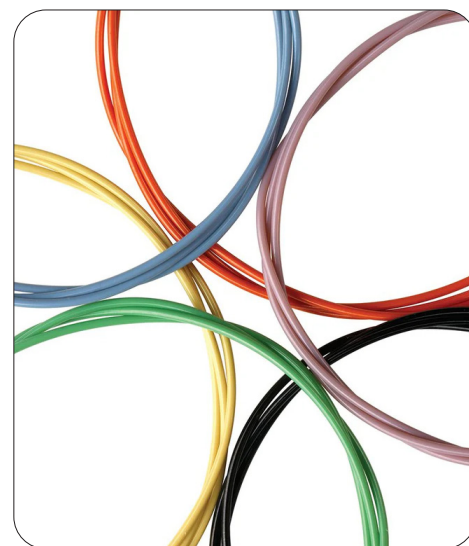
Precision bore PEEK tubing ensures reproducibility in your chromatographic flow rates through smooth internal surface along with consistent and tight toleranced IDs.

Specifications

- Operating temperature up to 100°C max continuous use.
- Operating pressure range up to 10,000 psi (690 bar), size dependent.
- Can be used across a broad pH range of 2 to 14.
- Pre-cut lengths of 5', 10', 50' and 100'.

Features and Benefits

- Excellent chemical resistance and inert to most commonly used solvents. Exceptions are very caustic reagents, strong acids and bases.
- Bio-inert and bio-compatible.
- Color coded to industry standards for easy identification of internal diameter.
- Leach free colorants.
- Smooth inner walls and precise IDs.
- Works well with both polymer or stainless steel fittings.
- Can be formed to specific customer needs.

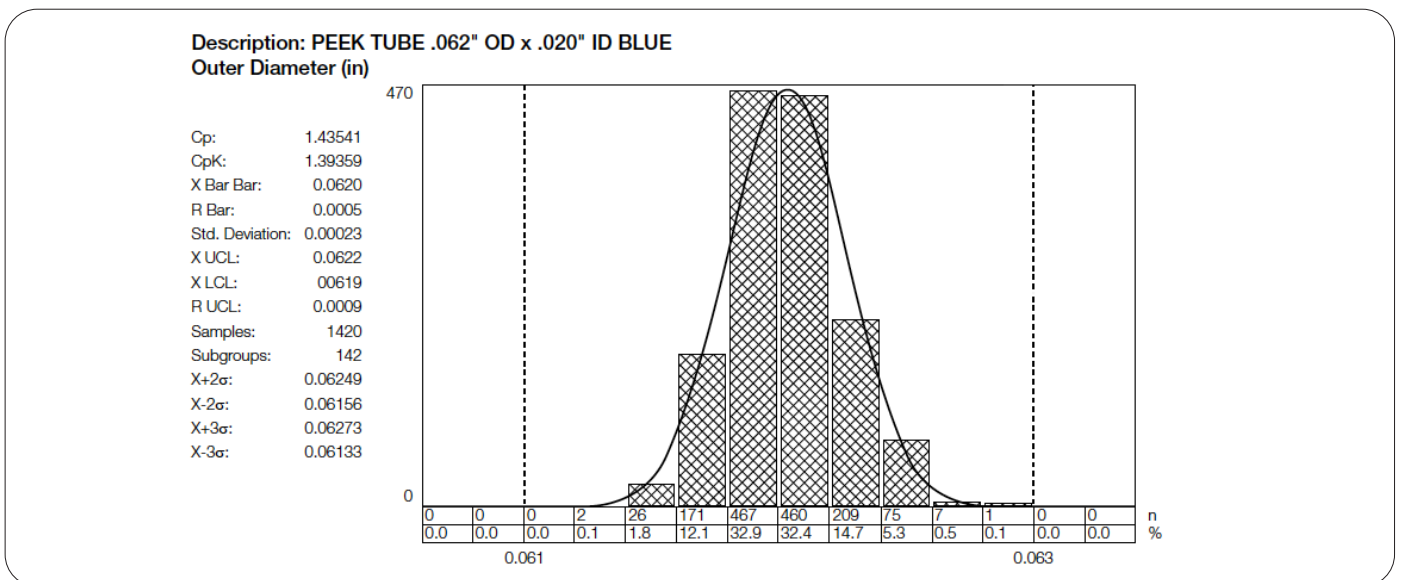


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OD	ID	Tolerances		Operating temperature (max °C)	Max operating pressure (psi/bar)	Color
		OD	ID			
1/16"	0.0025"	±0.001"	±0.0005"	100 °C	7,000 psi (483 bar)	Natural
1/16"	0.004"	±0.001"	±0.0005"	100 °C	7,000 psi (483 bar)	Black
1/16"	0.005"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Red
1/16"	0.007"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Yellow
1/16"	0.010"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Blue
1/16"	0.013"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Orange
1/16"	0.015"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Natural
1/16"	0.015"	±0.001"	±0.001"	100 °C	7,000 psi (483 bar)	Gray
1/16"	0.020"	±0.001"	±0.001"	100 °C	6,000 psi (414 bar)	Orange
1/16"	0.030"	±0.001"	±0.001"	100 °C	4,000 psi (276 bar)	Green
1/16"	0.030"	±0.001"	±0.001"	100 °C	4,000 psi (276 bar)	Red
1/16"	0.040"	±0.001"	±0.001"	100 °C	3,000 psi (207 bar)	Natural
1/32"	0.0025"	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Natural
1/32"	0.004"	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Black
1/32"	0.005"	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Red
1/32"	0.007"	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Yellow
1/32"	0.010"	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Blue
1/32"	0.015"	±0.0005"	±0.0005"	100 °C	4,000 psi (276 bar)	Natural
1/32"	0.015"	±0.0005"	±0.0005"	100 °C	4,000 psi (276 bar)	Gray
1/32"	0.020"	±0.0005"	±0.0005"	100 °C	3,000 psi (207 bar)	Orange
360 µm	50 µm (0.002")	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Natural
360 µm	75 µm (0.003")	±0.0005"	±0.0005"	100 °C	5,000 psi (345 bar)	Black
360 µm	100 µm (0.004")	±0.0005"	±0.0005"	100 °C	2,000 psi (138 bar)	Red
360 µm	125 µm (0.005")	±0.0005"	±0.0005"	100 °C	2,000 psi (138 bar)	Green
360 µm	150 µm (0.006")	±0.0005"	±0.0005"	100 °C	2,000 psi (138 bar)	Yellow
1/8"	0.062"	±0.003"	±0.003"	100 °C	4,000 psi (276 bar)	Natural
1/8"	0.080"	±0.003"	±0.003"	100 °C	3,000 psi (207 bar)	Natural

Real-time Online SPC Data



Connecting PEEK Tubing

Precision engineered to make stronger, more reliable connections within the instrument workflow

Accurately cut your PEEK tubing to precise lengths to eliminate seating issues, dead volume and leaks in the critical interfaces of your instrument such as sample introduction, columns, valves and detectors.

Our range of connection solutions for PEEK tubing extends to:

- Traditional PEEK Fingertight options.
- ProteCol® stainless connectors to join tubing of different ODs and IDs together.
- PEEKLok™ fittings:
 - Designed to minimize dead volume
 - Improve performance at higher pressures
 - Simplify port configurations with less crowding

Fused Silica Tubing

Precision Tubing for Performance

Coated fused silica tubing exhibits excellent flexibility, chemical stability, tensile strength and exacting tolerances making it the tubing of choice for GC capillary applications, LC tubing and other micro tubing requirements.

Features and Benefits

- High homogeneity.
- 100% proof tested for strength.
- Excellent resistance to thermal shock.
- Chemical inertness.
- Standard polyimide temperature resistance to +380 °C - equivalent to other high temperature polyimides.
- Polyimide coating is chemically resistant.
- Low dielectric constant, low dielectric loss.
- Impermeable to all gases (except H₂, He).
- Free of thermal hysteresis.
- Low weight loss (below devitrification temperature).
- Optical properties of uncoated - transparent above 180 nm.
- High intrinsic tensile strength.
- Uncoated, temperature resistant to 1000 °C.
- Pressure resistant to 1000 bar.
- Very low thermal expansion.
- Internal surface modification is available.



Recommended Applications

- Capillary GC.
- HPLC.
- Bioanalytical.
- High temperature GC.

Avoid use with hydrofluoric or phosphoric acids, alkalis and alkali-metalized compounds as dissolution of silica glass and surface devitrification may occur.

Product Specifications

ID	OD	Iron	Lithium	Sodium	Potassium	Magnesium	Manganese	Titanium	Chlorine	Zirconium
25 $\mu\text{m} \pm 1 \mu\text{m}$	360 $\mu\text{m} \pm 15 \mu\text{m}$	< 8 ppb	< 10 ppb	< 8 ppb	< 10 ppb	< 10 ppb	< 5 ppb	< 10 ppb	0 ppb	< 10 ppb
50 $\mu\text{m} \pm 3 \mu\text{m}$	430 $\mu\text{m} \pm 20 \mu\text{m}$									
75 $\mu\text{m} \pm 3 \mu\text{m}$	680 $\mu\text{m} \pm 25 \mu\text{m}$									
100 $\mu\text{m} \pm 3 \mu\text{m}$										
150 $\mu\text{m} \pm 3 \mu\text{m}$										
220 $\mu\text{m} \pm 5 \mu\text{m}$										
250 $\mu\text{m} \pm 5 \mu\text{m}$										
320 $\mu\text{m} \pm 5 \mu\text{m}$										
530 $\mu\text{m} \pm 10 \mu\text{m}$										

Glass lined Tubing (GLT™)

Combining strength and inertness

Features and Benefits

- GLT is inert and has excellent resistance to strong acids and bases, unlike inferior silica coated brands.
- Biocompatible making it ideal for many HPLC applications.
- Mirror surface finish allows high HPLC column efficiencies.
- GLT is stable and withstands high temperatures to 500°C.

Recommended Applications

GLT can be used for:

- Reactor tubing.
- Transfer lines or flow lines.
- Stack probes for environmental monitoring.
- HPLC columns for protein and biosensitive analyses.
- Mass spectrometer interfaces.
- Thermal desorption tubes.
- Inert tee pieces and unions.



Product Specifications

- GLT comes in a wide range of sizes:
- OD range of 1/16", 1/8", 1/4" and 1/2".
- ID range between 0.3 - 9.5 mm.
- Standard lengths available are 30 cm, 60 cm, 90 cm and 180 cm.
- Other lengths are available on request (minimum order quantity may apply).
- Standard OD surface finish is not polished. Polished OD surface finish is available on request.

GLT can be machined to form unions, fittings, and a range of other chromatography accessories.

OD	ID (mm)												
	0.3	0.4	0.5	0.7	0.75	0.8	0.9	1.0	1.5	1.8	2.0	4.0	9.5
1/16"	●	●	●	●		●	●						
1/8"	●		●		●			●	●	●			
1/4"								●			●	●	
1/2"													●

Stainless Steel Tubing

Stainless steel tubing is available in a number of different size combinations, suitable for your tubing needs.

Features and Benefits

- Smooth and clean bore
- 5, 10 and 25 meter lengths supplied in coils. Where tubing OD is smaller than 1/16", ends are bushed to 1/16" and GC ferrules are supplied.
- 5, 10 and 25 meter lengths supplied clean and passivated.

Recommended Applications

GC gas lines.

Product Specifications

OD	ID	Length
1/48"	0.25 mm	25 m
1/32"	0.5 mm	25 m
1/8	2.2 mm	5 m
1/16"	0.8 mm	10 m
1/16"	0.8 mm	5 m
1/8	2.2 mm	2 m
1/16"	0.8 mm	2 m



PEEK Tubing

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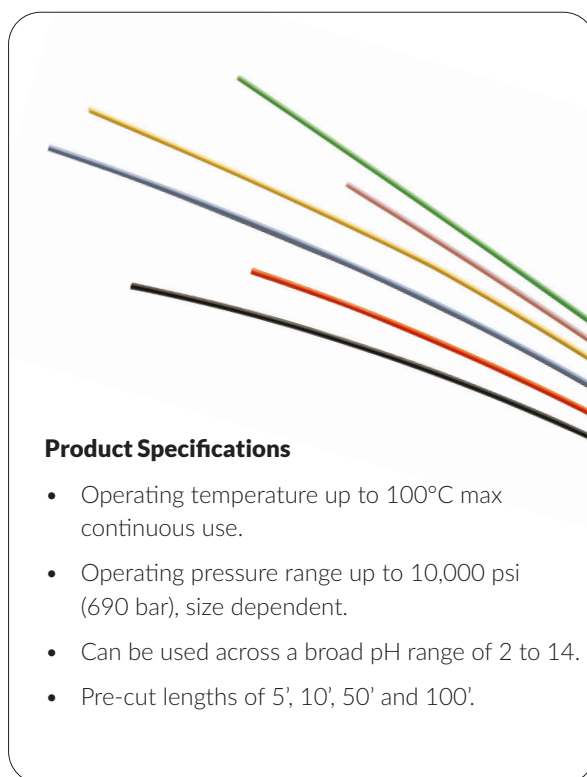
Precision bore PEEK tubing ensures reproducibility in your chromatographic flow rates and results through smooth internal surface along with consistent and tight toleranced IDs.

Features and Benefits

- Excellent chemical resistance and inert to most commonly used solvents. Exceptions are very caustic reagents, strong acids and bases.
- Bio-inert and bio-compatible.
- Color coded to industry standards for easy identification of inner diameter.
- Leach free colorants.
- Smooth inner walls and precise IDs.
- Works well with either polymer fittings as well as stainless steel fittings.
- Can be formed to specific customer needs.

Recommended Applications

LC, LCMS and automation solutions.



Product Specifications

- Operating temperature up to 100°C max continuous use.
- Operating pressure range up to 10,000 psi (690 bar), size dependent.
- Can be used across a broad pH range of 2 to 14.
- Pre-cut lengths of 5', 10', 50' and 100'.

PEEKsil® Tubing

Fused silica lined PEEK

PEEKsil® is constructed from a core of smooth precision bore fused silica tubing bonded to a PEEK outer sheath. It is manufactured to exacting tolerances of bore size and concentricity, for reproducible flow rates and reliable connections.

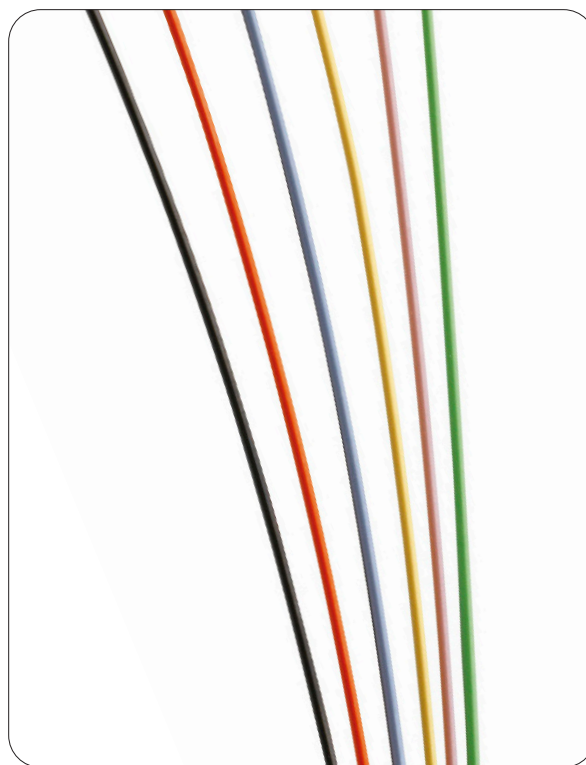
PEEKsil reduces separation dispersion and therefore loss of efficiency, sensitivity and resolution.

Features and Benefits

- Inert smooth flow path, to minimize band broadening.
- Precise inside bore diameter.
- Flexible and robust.
- Lower sample carryover.
- Color coded for easy identification of internal diameter.
- Perfectly square cut and polished ends.
- Capable of withstanding high pressures.
- Effective pH range of 0-10 (not compatible with hydrofluoric acid).
- Compatible with most organic solvents (unlike PEEK).

Recommended Applications

UHPLC, HPLC and LCMS.



Tubing Parts

Tubing	
Fused Silica Tubing	
Description	Part No.
GC Tubing, Fused Silica, 180 µm ID, 363 µm OD, L: 5 m, VSD	CT-100010
GC Tubing, Fused Silica (not deactivated), 110 µm ID, 170 µm OD, L: 10 m	CT-100011
GC Tubing, Fused Silica (not deactivated), 25 µm ID, 285 µm OD, L: 10 m	CT-100012
GC Tubing, Fused Silica (not deactivated), 50 µm ID, 150 µm OD, L: 10 m	CT-100013
GC Tubing, Fused Silica (not deactivated), 100 µm ID, 200 µm OD, L: 10 m	CT-100014
GC Tubing, Fused Silica (not deactivated), 320 µm ID, 430 µm OD, L: 10 m	CT-100015
GC Tubing, Fused Silica (not deactivated), 250 µm ID, 363 µm OD, L: 10 m	CT-100016
GC Tubing, Fused Silica (not deactivated), 50 µm ID, 363 µm OD, Sold per meter.	CT-100017
GC Tubing, Fused Silica (not deactivated), 75 µm ID, 363 µm mm OD, Sold per meter.	CT-100018
GC-Tubing, SilFlow, Deactivated Fused Silica, 200 µm ID, 363 µm OD, L: 2 m	CT-100059
GC Tubing, Methyl Deactivated Fused Silica, 25 µm ID, 285 µm OD, L: 2 m	CT-100000
GC Tubing, Methyl Deactivated Fused Silica, 125 µm ID, 363 µm OD, L: 2 m	CT-100001
GC Tubing, Methyl Deactivated Fused Silica, 75 µm ID, 363 µm OD, L: 2 m	CT-100002
GC Tubing, Methyl Deactivated Fused Silica, 50 µm ID, 363 µm OD, L: 2 m	CT-100003
GC Tubing, Methyl Deactivated Fused Silica, 110 µm ID, 170 µm OD, L: 2 m	CT-100004

Fused Silica Tubing	
Description	Part No.
GC Tubing, Methyl Deactivated Fused Silica, 150 µm ID, 220 µm OD, L: 2 m	CT-100005
GC Tubing, Methyl Deactivated Fused Silica, 150 µm ID, 363 µm OD, L: 2 m	CT-100006
GC Tubing, Methyl Deactivated Fused Silica, 220 µm ID, 363 µm OD, L: 5 m	CT-100007
GC Tubing, Methyl Deactivated Fused Silica, 320 µm ID, 430 µm OD, L: 25 m	CT-100008
GC Tubing, Methyl Deactivated Fused Silica, 150 µm ID, 363 µm OD, L: 5 m	CT-100009
Fused Silica Tubing	
1/16" OD x 0.3 mm ID x 180 cm Length Glass Lined Tubing	CT-100019
1/4" OD x 4.0 mm ID x 30 cm Length Glass Lined Tubing	CT-100020
1/4" OD x 4.0 mm ID x 60 cm Length Glass Lined Tubing	CT-100021
1/2" OD x 9.50 mm ID x 60 cm Length Glass Lined Tubing	CT-100022
1/8" OD x 1.0 mm ID x 50 mm Length Glass Lined Tubing	CT-100023
Stainless Steel Tubing	
GC Tubing, Stainless Steel, 0.25 mm ID, 1/48" OD, L: 25 m	CT-100024
GC Tubing, Stainless Steel, 0.50 mm ID, 1/32" OD, L: 25 m	CT-100025
GC Tubing, Stainless Steel, 16SSB/UM	CT-100026
GC Tubing, Stainless Steel, 0.80 mm ID, 1/16" OD, L: 10 m	CT-100027
GC Tubing, Stainless Steel, 0.80 mm ID, 1/16" OD, L: 5 m	CT-100028
PEEK Tubing	
HPLC Tubing 10 Feet, PEEK, 1/32" OD, 0.005" ID, Red, 10 F - PC/Pack	CT-100029
HPLC Tubing 50 Feet, PEEK, 1/32" OD, 0.005" ID, Red, 50 F - PC/Pack	CT-100030
HPLC Tubing 10 Feet, PEEK, 1/32" OD, 0.02" ID, Orange, 10 F - PC/Pack	CT-100031
HPLC Tubing 100 Feet, PEEK, 1/16" OD, 0.0025" ID, Natural, 100 F - PC/Pack	CT-100032
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.0025" ID, Natural, 5 F - PC/Pack	CT-100033
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.004" ID, Black, 5 F - PC/Pack	CT-100034
HPLC Tubing 10 Feet, PEEK, 1/16" OD, 0.005" ID, Red, 10 F - PC/Pack	CT-100035
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.005" ID, Red, 5 F - PC/Pack	CT-100036
HPLC Tubing 10 Feet, PEEK, 1/16" OD, 0.007" ID, Yellow, 10 F - PC/Pack	CT-100037
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.007" ID, Yellow, 5 F - PC/Pack	CT-100038
HPLC Tubing 10 Feet, PEEK, 1/16" OD, 0.01" ID, Blue, 10 F - PC/Pack	CT-100039
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.01" ID, Blue, 5 F - PC/Pack	CT-100040
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.03" ID, Red, 5 F - PC/Pack	CT-100041
HPLC Tubing 10 Feet, PEEK, 1/16" OD, 0.03" ID, Green, 10 F - PC/Pack	CT-100042
HPLC Tubing 5 Feet, PEEK, 1/16" OD, 0.03" ID, Green, 5 F - PC/Pack	CT-100043
HPLC Tubing 100 Feet, PEEK, 1/8" OD, 0.062" ID, Natural, 100 F - PC/Pack	CT-100044
HPLC Tubing 10 Feet, PEEK, 1/8" OD, 0.062" ID, Natural, 10 F - PC/Pack	CT-100045
HPLC Tubing 10 Feet, PEEK, 1/8" OD, 0.08" ID, Natural, 10 F - PC/Pack	CT-100046
HPLC Tubing 5 Feet, PEEK, 1/8" OD, 0.08" ID, Natural, 5 F - PC/Pack	CT-100047
HPLC Tubing 10 Feet, PEEK, 360 µm OD, 0.002" ID, Natural, 10 F - PC/Pack	CT-100048

Tubing

PEEKsil Tubing

Description	Part No.
HPLC Tubing, PEEKsil, 0.025 mm ID, 1/16" OD, L: 50 mm, Pkg. 5	CT-100049
HPLC Tubing, PEEKsil, 0.15 mm ID, 1/16" OD, L: 100 mm, Pkg. 5	CT-100050
HPLC Tubing, PEEKsil, 0.15 mm ID, 1/16" OD, L: 150 mm, Pkg. 5	CT-100051
HPLC Tubing, PEEKsil, 0.15 mm ID, 1/16" OD, L: 200 mm, Pkg. 5	CT-100052
HPLC Tubing, PEEKsil, 0.10 mm ID, 1/16" OD, L: 50 mm, Pkg. 5	CT-100053
HPLC Tubing, PEEKsil, 0.025 mm ID, 0.36 mm OD, L: 50 mm, Pkg. 2	CT-100054
HPLC Tubing, PEEKsil, 0.025 mm ID, 0.36 mm OD, L: 100 mm, Pkg. 2	CT-100055
HPLC Tubing, PEEKsil, 0.05 mm ID, 0.36 mm OD, L: 50 mm, Pkg. 2	CT-100056
HPLC Tubing, PEEKsil, 0.05 mm ID, 0.36 mm OD, L: 150 mm, Pkg. 2	CT-100057
HPLC Tubing, PEEKsil, 0.2mm ID, 1/16" OD, L: 300 mm, Blue, Pkg. 2	CT-100058