

Reliable | High performance

PEEK tubing

Experts in PEEK extrusion, PEEKsil® manufacturing and precision fluidics

www.trajanscimed.com

Trajan 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.

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

Bio-inert | Bio-compatible



PEEK tubing specification chart

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

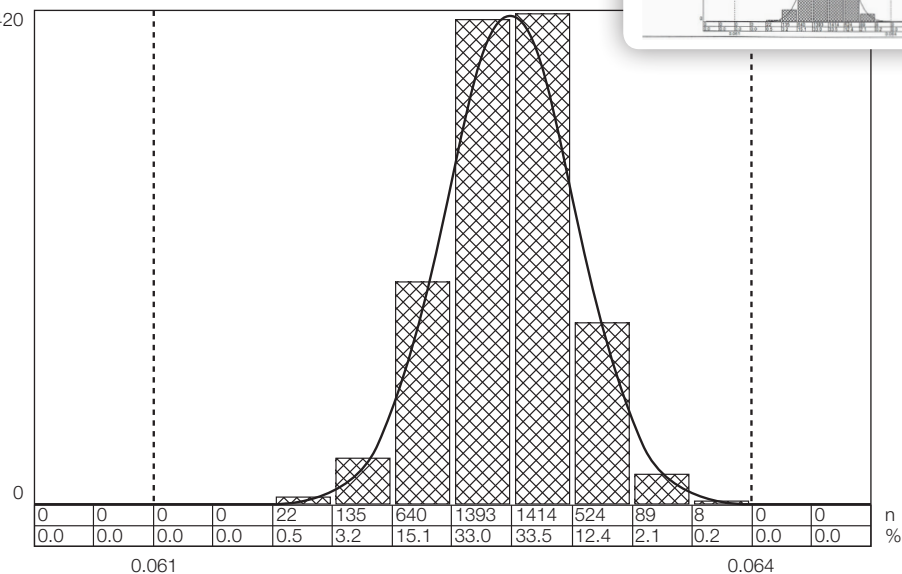
Specifications

- 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'.

Real-time online SPC data

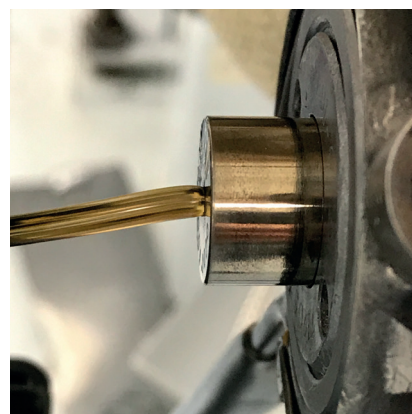
Description: PEEK TUBE .062" OD x .020 ID ORANGE

Cp: 1.53485 1420
CpK: 1.24210
X bar bar: 0.0623
R bar: 0.0012
Std. deviation: 0.00033
X UCL: 0.0625
X LCL: 0.0621
R UCL: 0.0019
Samples: 4225
Subgroups: 169
X + 2σ: 0.06294
X - 2σ: 0.06163
X + 3σ: 0.06326
X - 3σ: 0.06131



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 both polymer or stainless steel fittings.
- Can be formed to specific customer needs.



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Connecting PEEK tubing

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

Trajan can 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.

Trajan's 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

Trajan's expertise in PEEK extrusion enables us to produce custom dimensions and sizes.

Our expertise also enables rapid turnaround time.

Visit us at www.trajanscimed.com or contact your regional Trajan representative for assistance and further information.



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Trajan Scientific and Medical

Science that benefits people

Trajan is actively engaged in developing and delivering solutions that have a positive impact on human wellbeing. Our vision revolves around collaborative partnerships that improve workflows, delivering better results.