

Tubing | PEEKsil®

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.

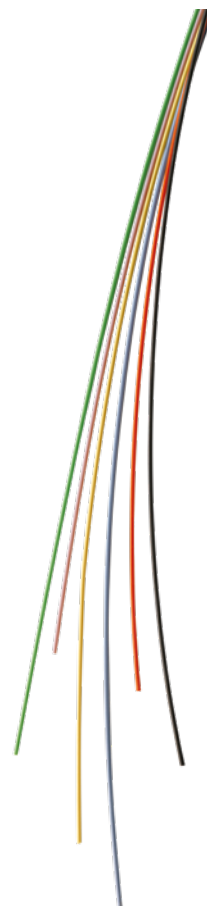
PEEKsil reduces separation dispersion and therefore loss of efficiency, sensitivity and resolution.

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.



Product specifications

PEEKsil specifications for use with PEEKLok™ connections.

To optimize your PEEKsil connections utilize our PEEKLok fittings, available in 1/16" to suit 10-32 UNF ports, and 1/32" to suit 6-32 UNF and 6-40 UNC ports.

- OD: 360 µm (0.36 mm), 1/32", and 1/16"
- ID: 25 µm to 530 µm
- Tubing lengths: 50 mm, 100 mm, 150 mm, 250 mm, 500 mm. Custom lengths are also available on request.
- Maximum temperature: 100°C

1/16" OD PEEKsil specifications									
ID	25 µm (0.001")	50 µm (0.002")	75 µm (0.003")	100 µm (0.004")	150 µm (0.006")	175 µm (0.007")	200 µm (0.008")	300 µm (0.012")	530 µm (0.021")
ID tolerance	±1 µm	±3 µm	±3 µm	±3 µm	±5 µm	±5 µm	±5 µm	±5 µm	±10 µm
ID color code	Orange	Beige (natural)	Black	Red	Purple	Yellow	Blue	Gray	Bone white
Pressure*	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	1,035 bar (15,000 psi)	860 bar (12,500 psi)	550 bar (8,000 psi)
Min bend radius	25mm (diameter 50)								

1/32" OD PEEKsil specifications					
ID	25 µm (0.001")	50 µm (0.002")	75 µm (0.003")	100 µm (0.004")	150 µm (0.006")
ID tolerance	±1 µm	±3 µm	±3 µm	±3 µm	±5 µm
ID color code	Orange	Beige (natural)	Black	Red	Purple
Pressure*	1,380 bar (20,000 psi)	1,380 bar (20,000 psi)	1,380 bar (20,000 psi)	1,310 bar (19,000 psi)	1,310 bar (19,000 psi)
Min bend radius	13mm (diameter 26)				

360 µm (0.36 mm) OD PEEKsil specifications		
ID	25 µm (0.001")	50 µm (0.002")
ID tolerance	±1 µm	±3 µm
ID color code	Orange	Beige (natural)
Pressure*	2,068 bar (30,000 psi)	2,068 bar (30,000 psi)
Min bend radius	8mm (diameter 16)	

* Recommended PEEKsil maximum operating pressure tested at room temperature, with water, in straight lengths (no bending, coiling, or hanging).

For more information about this product visit www.trajanscimed.com or contact techsupport@trajanscimed.com