



## NATURAL PEEK TUBING

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 acids like nitric and sulphuric acid will attack PEEK.



**NATURAL PEEK TUBING**  
shown with ODs of  
1/8", 1/16", 1/32", and 360 µm

### **i** PEEK TUBING TOLERANCES

Due to tighter tolerances, VICI Jour PEEK tubing is the best choice for chromatography applications in which exact flow rates or tube volume are of importance. The tighter tolerance ensures a more consistent internal volume of transfer lines.

Tubing OD	OD and ID (±)
1/32"	0.025 mm
1/16"	0.025 mm
1/8"	0.075 mm
1/4"	0.100 mm

### **t** TECH TIP

- A clean burr-free perpendicular cut can be achieved with our Clean-cut cutter for polymeric tubing . . . 100
- To bend PEEK tubing at the optimal radius, use our tubing elbows . . . 100

### **➔** MORE INFO

- About PEEK® . . . . . 113
- Chemical resistance PEEK . . . . . 110-112
- PEEK at higher temperatures . . . . . 110
- Maximum working pressure . . . . . 108
- Tubing ID chart: volume per length . . . 107
- Tubing tolerances . . . . . 109

### **➔** SEE ALSO

- Clean-cut polymeric tubing cutter . . . . . 100
- Easy-Flange kit . . . . . 99
- PEEK fittings High pressure . . . . 24-35
- Low pressure . . . . . 48, 50-53
- PEEK tubing elbows . . . 100

### SPECIFICATIONS

**MAXIMUM RECOMMENDED WORKING TEMPERATURE**  
100°C (continuous) for 1/16" OD tubing with ID up to 0.75 mm

**MAX WORKING PRESSURES AT ROOM TEMPERATURE**  
See page 108

### OPTIONS

- Contact your distributor for more information about:
- Longer bulk tubing lengths
  - Customized ODs and IDs

## PEEK tubing – natural

OD	ID (mm)	1.5 m	3 m	10 m
		Product No.	Product No.	Product No.
1/32"	0.13	JR-T-5993-M1.5	JR-T-5993-M3	JR-T-5993-M10
	0.15	JR-T-5706-M1.5 <i>NEW</i>	JR-T-5706-M3 <i>NEW</i>	JR-T-5706-M10 <i>NEW</i>
1/8"	0.75	—	JR-T-60041-M3	JR-T-60041-M10
	1.59	—	JR-T-6004-M3	JR-T-6004-M10
	2.00	—	JR-T-60042-M3	JR-T-60042-M10

OD	ID (mm)	per meter	
		Product No.	Tubing tolerance: OD ± 0.037 mm; ID ± 0.0013 mm
1/16"	0.064	JR-T-5998-0005 <i>NEW</i>	
	0.38	JR-T-62015	
1/4"	3.17	JR-T-6006	

### **↔** CONVERSIONS

75 µm = .003"
0.013 mm = .0005"
0.025 mm = .001"
0.064 mm = .0025"
0.075 mm = .003"
0.100 mm = .004"
0.13 mm = .005"
0.15 mm = .006"
0.38 mm = .015"
0.75 mm = .03"
1.59 mm = 1/16"
2.00 mm = .08"
3.17 mm = 1/8"
1.5 m = 4.92'
3.0 m = 9.84'
10.0 m = 32.8'

### **?** WHICH PEEK TUBING FOR WHICH APPLICATION?

Application	Tubing
Standard HPLC*	1/16" OD x 0.25 mm ID
High pressure semi-prep LC*	1/8" OD
Agilent 1100 LC systems**	1/32"
Most capillary systems	360 µm

\* Smaller ID for low flow rates/higher ID for high flow rates. Note that a low linear flow rate causes peak broadening.

\*\*For some 1100 LC systems with high pressure flow paths

### **t** TECH TIP: STRAIGHTENING PEEK TUBING

1. Start with stainless steel tubing:  
ID slightly larger than OD of PEEK  
Length = 2 cm shorter than PEEK
2. Slide PEEK tubing into stainless tubing, extending 1 cm out each end of the stainless
3. Place sleeved PEEK tubing into oven:  
220°C for 30 minutes, or  
180°C for 60 minutes
4. Allow sleeved tubing to cool in oven to ambient temperature
5. Once tubing is cooled, remove PEEK tubing from the SS sleeve
6. Check for straightness
7. Repeat if necessary