

PEEK Extruded Tubing

High Performance Extruded Tubing



Zeus offers PEEK extruded tubing in a variety of value-add options.

Overview

PEEK is a high performing engineered polymer with an extremely broad range of uses. PEEK can be extruded into high temperature and high strength tubing which can be found almost anywhere from medical, oil and gas, aerospace, automotive, fluid management, to fiber optics industries. PEEK tubing easily tolerates autoclaving and gamma radiation for use in sterile environments; PEEK is also flame resistant. Where weight is a concern, PEEK tubing can replace metals in many applications because of its high strength-to-weight ratio.

The high tensile strength of PEEK makes PEEK tubing ideal for high pressure applications such as high-performance liquid chromatography (HPLC). PEEK tubing has excellent columnar stiffness and ability to form tight radius bends for use as catheter componentry.

Zeus PEEK extruded tubing is available with wall thicknesses down to 0.002" (0.051 mm) with tolerances that can be customized to meet the most demanding requirements. Ask a Zeus representative today about creating a custom product for you or contact us to request samples.



CHEMICAL RESISTANCE



TEMPERATURE RESISTANCE



IMPACT RESISTANCE

Applications

- HPLC tubing
- Catheter liner
- Fluid management
- Furcation tubing for fiber optics
- Multi-lumen tubing
 - Fiber optics
 - Catheters
- Replacement for metal
- Wire harness and cable wrap (spiral wrap)

Capabilities and Sizing

- Extensive and customizable size ranges available
- Colors available
- Extremely tight tolerances

Key Properties

- Biocompatibility
- Chemical resistance
- High purity
- Torsional stability
- Flame resistance (UL 94 V-0 rating)
- High burst pressure
- High strength-to-weight
- Working temperature up to 500 °F / 260 °C
- Impact and wear resistance
- Sterilizable



PEEK Extruded Tubing

High Performance Extruded Tubing

PEEK EXTRUDED TUBING				
ID		OD		PRESSURE RATING*
in.	mm	in.	mm	psi
0.003	0.076	0.020	0.508	2000
0.005	0.127	0.020	0.508	2000
0.010	0.254	0.020	0.508	2000
0.003	0.076	0.062	1.575	5000
0.005	0.127	0.062	1.575	5000
0.007	0.178	0.062	1.575	5000
0.010	0.254	0.062	1.575	5000
0.020	0.508	0.062	1.575	5000
0.030	0.762	0.062	1.575	5000
0.040	1.016	0.062	1.575	5000
0.055	1.397	0.062	1.575	5000
0.062	1.575	0.125	3.175	3000
0.080	2.032	0.125	3.175	3000

**Suggested maximum safe operating pressure*