



GIVE YOUR PROJECT PEEK PERFORMANCE

(Polyether Ether Ketone)

AT A GLANCE

- PEEK's unique combination of outstanding strength and mechanical properties allow new design options for medical devices
- High-performance PEEK:
 - Provides high strength and dimensional stability
 - Withstands force without elongating
 - Offers high inherent lubricity
- Teleflex Medical OEM is a global leader in the precision extrusion of advanced thermoplastics such as PEEK

PEEK: THE HIGH-PERFORMANCE THERMOPLASTIC MATERIAL

- High tensile and column strength
 - One of the highest strength to weight ratios of any thermoplastic
 - PEEK is often utilized as a replacement for stainless steel and other metals
 - Holds form and dimensions when load is applied
- High flexural modulus
 - PEEK withstands loads without deflection, which results in high pushability, excellent torque transmission and the ability to handle buckling loads
- Low elongation/elasticity
 - PEEK withstands force without elongating in the direction of the force
- High inherent lubricity results in minimal abrasion
- Outstanding heat and chemical resistance, and insulation qualities

TYPICAL APPLICATIONS

- Components in catheters used for coronary valve, stent, or graft delivery
- Bone cement delivery during orthopedic procedures
- Spinal, ablation, endoscopy, and vascular applications
- Potential as replacement for steel components used during many minimally invasive procedures

DIMENSIONAL RANGE

- Max OD: 0.500" (12.7mm)
- Min OD: 0.030" (0.762mm)
- ID/OD tolerances: +/- 0.0005" (0.0127mm)
- Wall thickness: minimum spec is 0.005" (0.127mm), no maximum spec
- PEEK extrusion can be customized to the sizes and lengths required for most applications

Please turn over for additional information



PRODUCTION INFORMATION

- Our standard medical grade material meets USP Class VI and cytotoxicity testing requirements. Biocompatibility test information is available.
 - Note: An implantable grade is available upon request.
- Formats:
 - Single- and multi-lumen tubing
 - Rods
 - Custom profiles and shapes, including:
 - Key hole
 - Half moon
 - Oval
- Proprietary processes enhance the concentricity or shaping of PEEK extrusion
- Color selection:
 - Black
 - Grey
 - Blue
 - Tan (*natural*)
- Radiopaque fillers available
- Sterilization:
 - Gamma
 - EtO
 - E-beam
 - Autoclave

WORK WITH THE EXPERTS™ AT TELEFLEX MEDICAL OEM

Vertically integrated capabilities. Deep expertise. Decades of experience. We are the experts when it comes to all things extrusion. Our team has what it takes to inspire innovation, follow through on every detail, and, ultimately, get your project into the market.

You can count on us to enhance your design, develop functional prototypes, guide you through the maze of global regulations, and scale up for manufacturing. Our extensive, in-house capabilities include:

- Product concept development
- Engineering
- Design for manufacturability
- Regulatory affairs
- Material selection
- Strategic sourcing solutions
- Prototyping
- Testing and validation
- Production process development
- Custom tooling
- Manufacturing
- Finishing operations
- Assembly
- Packaging
- Private labeling
- Sterilization

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