



MEDICAL DEVICE



PEEK (Polyetheretherketone)

PEEK high performance polymer has successfully replaced glass, stainless steel and titanium in a growing range of medical applications. The materials exceptional combination of properties allow engineers and designers the ability to create cost-effective, innovative parts that require outstanding wear, heat, electrical and chemical resistance.

PEEK is characterized by high strength, extreme resistance to hydrolysis, and resistance to ionizing radiation. Therefore, it can be repeatedly sterilized using conventional gamma irradiation, steam, or ethylene oxide. It has been exposed for 2500 hours at 200°C to 14-bar steam without significant deterioration of its mechanical properties.*

PEEK's Advantages:

- Chemical resistance
 - High strength
- Inherent purity and inertness for sterile environments
 - Outstanding autoclavability
 - Radiolucent

The Ensinger-Putnam Advantage

As part of the Ensinger Family of companies, we have a deep experience base with semi-crystalline materials. Not just any molder can successfully process PEEK. Only those with years of experience and specialized equipment can meet the demands of this high performance thermoplastic. Call your local Ensinger Representative or contact Kiersten Asbeck direct at: kasbeck@putnamprecisionmolding.com

* MDDI - May 2005 - Using Implantable-Grade PEEK for In Vivo Devices