



PEEK (Polyetheretherketone)

Allplastics supplies and machines PEEK Sheet and Rod. PEEK is the high temperature plastic with outstanding properties. It is a semi crystalline, high performance thermoplastic for very demanding applications where temperature resistance up to 250°C, excellent chemical resistance and high mechanical properties are required.

PEEK Natural can be sterilized by conventional sterilization methods and has a raw material composition which allows contact with food.

Other PEEK grades are available with additives such as PTFE, graphite and carbon. The addition of these results in a grade which is low friction, high wear and high PV limits, making them ideal for wear and friction applications.

Temperature range -50°C to +250°C

Key Features

- High thermal mechanical bearing strength
- Creep resistant
- Very tough
- Good chemical resistance
- Hydrolysis resistant, even against super heated steam
- Good sliding properties
- Wear and UV resistant
- Electrically insulating
- Good machinability
- Very high temperature rating 250°C

Applications

- Gears
- Wear Strips
- Bushes
- Metering pumps
- Light mountings
- Friction bearings
- Ball valve seals
- Pump housings
- Wafer support
- Plug parts
- Aerospace industry
- Semiconductor production
- Oil exploration