PEEK PVE Ultimate

Product Datasheet

Revision: SHP/PEEK-PVE/09/2017 ...where performance matters

Pressure velocity enhanced plastic

PEEK PVE Ultimate (peek mod) is a self-lubricating plastic which is ideal for sliding applications and bearings

PEEK PVE Ultimate combines 70% Peek, 10% carbon fibre, 10% graphite and 10% PTFE to create a self-lubricating plastic with additives that enhance wear. Due to better tribological properties, PEEK PVE will perform at higher speed and pressure than other PEEK grades. The plastic is an excellent material for any applications involving movement or wear. It offers high creep resistance, good heat deflection and superior dimensional stability.

The plastic finds use in a wide variety of motorsport applications including bearing cages.

Characteristics

- Good heat deflection temperature
- Good sliding and wear performance
- High creep resistance
- Good dimensional stability
- Wear enhanced additives, increased PV (pressure velocity) capability

Applications

- Bearing cages to reducer drag torque
- Bearing cages for rolling bearings
- High-speed train cages
- Powertrain applications and stabiliser bushes
- Valve components
- Electrical components
- Chassis components

About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including **Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC**.

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