

Key Features

- good heat deflection temperature
- high creep resistance
- good slide and wear properties
- good wear properties
- very good chemical resistance
- inherent flame retardant
- hydrolysis and superheated steam resistant

Common Applications

- mechanical engineering
- energy industry
- automotive industry
- chemical technology
- aircraft and aerospace technology

Material Description

PEEK PVX is a premium-grade PEEK material specifically engineered for bearing applications. Infused with carbon, PTFE, and graphite, it offers superior sliding properties, making it exceptionally well-suited for high-load environments. This versatile material is available in the form of plastic sheets, solid rods, and hollow rods, providing flexibility for various industrial needs.

Mechanical Properties

| | |
|---------------------------|---------------|
| Ultimate Tensile Strength | 84 MPa |
| Tensile Yield Strength | 84 MPa |
| Hardness | Rockwell M100 |
| Elongation at Break | 3% |

Physical Properties

| | |
|-----------------------|--|
| Density | 0.052 lb/in ³ (1.44 g/cm ³) |
| Thermal Conductivity | 0.82 W/m.K |
| Modulus of Elasticity | 5,500 MPa |
| Melting Point | 341 °C |

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ - On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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