

PEEK Bearing Grade

OVERVIEW

Bearing Grade PEEK contains carbon fiber reinforced with graphite and PTFE lubricants, offering the lowest coefficient of friction and the best machinability for all PEEK grades. Bearing grade PEEK has an excellent combination of low friction, low wear, high limiting PV, low mating part wear, and easy machining.

APPLICATIONS & USES

- Bushings and Bearings
- Gears and Sprockets
- Manifolds
- Pump & Valve Components
- Rollers
- Wear Strips
- Pump Case Wear Rings

TECHNICAL DATA

PROPERTY	VALUE
Tensile Strength	11,000 psi
Tensile Modulus	850,000 psi
Tensile Elongation at Break	2%
Flexural Strength	27,500 psi
Flexural Modulus	1,100,000 psi
Compressive Strength	26,700 psi
Compressive Modulus	1,000,000 psi
Hardness	Rockwell M85
IZOD Impact-Notched	0.7 ft-lb/in
Dynamic Coefficient of Friction	—
Wear K Factor	—
Limiting PV	—
Coefficient of Linear Thermal Expansion	1.7 x 10 ⁻⁵ in./in./°F

The data provided gives the typical properties of the material. These are “typical” properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.



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PROPERTY	VALUE
Heat Deflection Temp	383° F
Melting Point Temp	644° F
Max Continuous Operation Temp	482° F
Minimum Operating Temp	-76° F
Thermal Conductivity	1.7 BTU-in/ft ² -hr-°F
Flammability Rating	V-0
UV Resistant	Yes

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