



30% Glass filled PEEK - Typical Resin Properties Data Sheet

Polyetheretherketone (PEEK) is a high temperature semi-crystalline polymer characterized by having a unique combination of important properties including resistance to wear, chemicals and fatigue. Glass filled PEEK offers higher strength and stiffness over unfilled PEEK especially in applications where service temperatures approach 300°C.

| Physical Properties | Test Method | Unit | Value |
|----------------------------|-------------|-------------------|-----------|
| Specific Gravity | ASTM D792 | g/cm ³ | 1.53 |
| Water Absorption (24 hrs.) | ISO 62 | % | 0.12 |
| Mechanical Properties | Test Method | Unit | Value |
| Tensile Strength | ASTM D638 | psi | 17,600 |
| Tensile Elongation, break | ASTM D638 | % | 2.7 |
| Flexural Modulus | ASTM D790 | psi | 1,160,000 |
| IZOD Impact Strength | ASTM D256 | Ft.-Lb./in. | 2.1 |
| Thermal Properties | Test Method | Unit | Value |
| Melting Point | ASTM D3418 | °C | 340 |
| HDT (1.82 MPa) | ASTM D648 | °C | 310 |

Sheets/Plates

Thickness: 3/8" to 4"
Size: 1' x 4'

Rods

Diameter: 1" to 8"
Length: 4' | 8'

Tubular Bar

OD: 3" to 6"
Wall Thickness: > 1/2"
Length: 4'

Colors Available:

Natural and Black

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