PEEK+GF30 - polyetheretherketone 30% glass-reinforced

Other material names PEEK+GF30: PEEK Glass-Reinforced

Material group: PEEK

The addition of glass fibers significantly reduces the expansion rate and increases the flexural modulus of PEEK. This grade is ideal for structural applications that require improved strength, stiffness or stability, especially at temperatures above 150°C.

Color of material:

Natur



Typical applications:

- vacuum wand handles during semiconductor manufacturing
- oil field drilling, components machined from PEEK
- \bullet ideal for instrument components where aesthetics are important
- seal components where ductility and inertness are important









The material is used in:

Electrotechnical industry Automobile industry Chemical industry Engineering industry Steel industry Paper industry Glass industry

Features:

- Excellent chemical resistance
- Very low moisture absorption
- Inherently good wear and abrasion resistance
- Unaffected by continuous exposure to hot water or steam

Material availability: Some sizes are in stock

Material properties table

Specific weight	1.51 g/cm ³
Yield strength	90 N/mm ²
Allowable mean pressure deformation 1%	41.00 N/mm ²
Allowable mean pressure deformation 2%	81.00 N/mm ²
Tensibility	5 %
Tensile modulus	6 300 N/mm ²
Impact toughness	35
Notched toughness	>4 kJ/m ²

270 N/mm² **Ball hardness** 0.36 Friction coefficient Antistatic material No **Permittivity** 3.20 **Electrical strength** 24 kV/mm Specific internal resistance $10^{(14)} \Omega$ **Specific surface resistance** 10⁽¹³⁾ Ω.cm **Melting point** 340 °C Thermal expansion 3 10^(-5)/K Thermal conductivity 0.43 W/(K.m)Permanent use temperature -20;250 °C Transient temperature of use -20;310 °C **Absorbability** 0.14 % Water absorption 0.3 % **Resistance - oils** resistant **Acid resistance** resistant **Durability - alcali** resistant **Food contact** No

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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