

Glass Fiber Reinforced PEEK-FR

Catlog Number: CRSM-0048

• Description

Flame-retardant glass fiber PEEK optimized for electrical insulation and high structural loads in nuclear and aerospace research.

• Basic Information

Base Material: PEEK

Reinforcement Type: Micro-Glass Fiber

Reinforcement Volume (%): 0.3

Density (g/cm³): 1.52

Tensile Strength (MPa): 115

Tensile Modulus (MPa): 8500

Elongation at Break (%): 2.5

Flexural Strength (MPa): 185

Flexural Modulus (MPa): 8100

Heat Deflection Temp (0.45MPa): 315

Glass Transition Temp (Tg): 143

Melting Point (°C): 343

Thermal Conductivity (W/mK): 0.3

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁶

Water Absorption (%): 0.1

Printing Temp (°C): 400-440

Bed Temp (°C): 120-150

Chamber Temp (°C): 100-140

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.25

Continuous Use Temp (°C): 250

Impact Strength (kJ/m²): 16

 For Research or Industrial Raw Materials, Not For Personal Medical Use!