

Continuous Carbon Fiber PEEK

Catlog Number: CRSM-0075

• Description

Extreme performance continuous fiber system achieving aerospace-grade structural strength for satellite frames and engine components.

• Basic Information

Base Material: PEEK

Reinforcement Type: Continuous Carbon Fiber

Reinforcement Volume (%): 0.45

Density (g/cm³): 1.55

Tensile Strength (MPa): 1800

Tensile Modulus (MPa): 145000

Elongation at Break (%): 1.2

Flexural Strength (MPa): 1100

Flexural Modulus (MPa): 125000

Heat Deflection Temp (0.45MPa): 315

Glass Transition Temp (Tg): 143

Melting Point (°C): 343

Thermal Conductivity (W/mK): 1.1

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹

Water Absorption (%): 0.05

Printing Temp (°C): 400-450

Bed Temp (°C): 130-160

Chamber Temp (°C): 120-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.125

Shrinkage Rate (%): 0.02

Continuous Use Temp (°C): 260

Impact Strength (kJ/m²): 145

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