

## High-Temp CF-Polyaryletherketone

Catlog Number: CRSM-0012

### • Description

Semi-crystalline PAEK composite optimized for high interlayer adhesion and mechanical performance in extreme industrial environments.

### • Basic Information

Base Material: PAEK  
Reinforcement Type: Carbon Fiber  
Reinforcement Volume (%): 0.2  
Density (g/cm<sup>3</sup>): 1.35  
Tensile Strength (MPa): 135  
Tensile Modulus (MPa): 11500  
Elongation at Break (%): 2  
Flexural Strength (MPa): 210  
Flexural Modulus (MPa): 10800  
Heat Deflection Temp (0.45MPa): 290  
Glass Transition Temp (Tg): 147  
Melting Point (°C): 340  
Thermal Conductivity (W/mK): 0.4  
Flame Retardancy (UL94): V-0  
Surface Resistivity (Ω): 10<sup>5</sup>  
Water Absorption (%): 0.12  
Printing Temp (°C): 380-420  
Bed Temp (°C): 120-150  
Chamber Temp (°C): 90-130  
Nozzle Type: Hardened Steel  
Layer Height (mm): 0.1-0.2  
Shrinkage Rate (%): 0.2  
Continuous Use Temp (°C): 240  
Impact Strength (kJ/m<sup>2</sup>): 11.5

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