

## High-Density Glass Fiber PEI

Catlog Number: CRSM-0038

### • Description

Non-conductive, high-strength PEI composite for structural electrical insulators and high-heat aerospace components.

### • Basic Information

Base Material: PEI 1010

Reinforcement Type: Glass Fiber

Reinforcement Volume (%): 0.25

Density (g/cm<sup>3</sup>): 1.51

Tensile Strength (MPa): 125

Tensile Modulus (MPa): 9200

Elongation at Break (%): 2

Flexural Strength (MPa): 185

Flexural Modulus (MPa): 8800

Heat Deflection Temp (0.45MPa): 212

Glass Transition Temp (Tg): 217

Melting Point (°C): -

Thermal Conductivity (W/mK): 0.28

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10<sup>16</sup>

Water Absorption (%): 0.25

Printing Temp (°C): 370-400

Bed Temp (°C): 140-160

Chamber Temp (°C): 100-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.25

Continuous Use Temp (°C): 200

Impact Strength (kJ/m<sup>2</sup>): 14

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