

## Glass Fiber Reinforced PPSU

Catlog Number: CRSM-0032

### • Description

High-toughness sulfone polymer reinforced with glass fiber, designed for high-pressure fluid manifolds and aerospace interior research.

### • Basic Information

Base Material: Polyphenylsulfone

Reinforcement Type: Micro-Glass Fiber

Reinforcement Volume (%): 0.2

Density (g/cm<sup>3</sup>): 1.41

Tensile Strength (MPa): 85

Tensile Modulus (MPa): 5800

Elongation at Break (%): 3.5

Flexural Strength (MPa): 130

Flexural Modulus (MPa): 5400

Heat Deflection Temp (0.45MPa): 205

Glass Transition Temp (Tg): 220

Melting Point (°C): -

Thermal Conductivity (W/mK): 0.32

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10<sup>15</sup>

Water Absorption (%): 0.3

Printing Temp (°C): 360-395

Bed Temp (°C): 140-160

Chamber Temp (°C): 110-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.4

Continuous Use Temp (°C): 190

Impact Strength (kJ/m<sup>2</sup>): 18

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