

## Carbon Fiber Reinforced PPS-FR

Catlog Number: CRSM-0096

### • Description

Flame-retardant PPS composite with high carbon fiber content for fuel-safe components and extreme chemical resistance in R&D.

### • Basic Information

Base Material: Polyphenylene Sulfide

Reinforcement Type: Chopped Carbon Fiber

Reinforcement Volume (%): 0.25

Density (g/cm<sup>3</sup>): 1.48

Tensile Strength (MPa): 125

Tensile Modulus (MPa): 9200

Elongation at Break (%): 2

Flexural Strength (MPa): 185

Flexural Modulus (MPa): 8500

Heat Deflection Temp (0.45MPa): 275

Glass Transition Temp (Tg): 95

Melting Point (°C): 285

Thermal Conductivity (W/mK): 0.45

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10<sup>6</sup>

Water Absorption (%): 0.05

Printing Temp (°C): 320-350

Bed Temp (°C): 110-130

Chamber Temp (°C): 90-110

Fan Speed (%): 10

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.2

Continuous Use Temp (°C): 220

Impact Strength (kJ/m<sup>2</sup>): 9

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