

## Continuous Glass Fiber Nylon

Catlog Number: CRSM-0050

### • Description

Continuous fiber reinforcement providing high strength and electrical insulation, ideal for structural insulators and non-conductive frames.

### • Basic Information

Base Material: Polyamide

Reinforcement Type: Continuous Glass Fiber

Reinforcement Volume (%): 0.4

Density (g/cm<sup>3</sup>): 1.45

Tensile Strength (MPa): 590

Tensile Modulus (MPa): 26000

Elongation at Break (%): 3.5

Flexural Strength (MPa): 450

Flexural Modulus (MPa): 22000

Heat Deflection Temp (0.45MPa): 155

Glass Transition Temp (Tg): 65

Melting Point (°C): 195

Thermal Conductivity (W/mK): 0.45

Flame Retardancy (UL94): HB

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

Water Absorption (%): 0.85

Printing Temp (°C): 250-280

Bed Temp (°C): 60-90

Chamber Temp (°C): 40-60

Nozzle Type: Hardened Steel

Layer Height (mm): 0.125

Shrinkage Rate (%): 0.1

Continuous Use Temp (°C): 125

Impact Strength (kJ/m<sup>2</sup>): 85

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