

Carbon Fiber PESU

Catlog Number: CRSM-0011

• Description

High-performance amorphous thermoplastic reinforced with carbon fiber for superior dimensional stability and inherent flame retardancy.

• Basic Information

Base Material: Polyethersulfone
Reinforcement Type: Chopped Carbon Fiber
Reinforcement Volume (%): 0.15
Density (g/cm³): 1.42
Tensile Strength (MPa): 98
Tensile Modulus (MPa): 7200
Elongation at Break (%): 2.2
Flexural Strength (MPa): 145
Flexural Modulus (MPa): 6800
Heat Deflection Temp (0.45MPa): 215
Glass Transition Temp (Tg): 225
Melting Point (°C): -
Thermal Conductivity (W/mK): 0.32
Flame Retardancy (UL94): V-0
Surface Resistivity (Ω): 10⁶ - 10⁸
Water Absorption (%): 0.35
Printing Temp (°C): 360-390
Bed Temp (°C): 140-160
Chamber Temp (°C): 100-140
Nozzle Type: Hardened Steel
Layer Height (mm): 0.15
Shrinkage Rate (%): 0.35
Continuous Use Temp (°C): 185
Impact Strength (kJ/m²): 8

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