Eata 3DPrint

Continuous Carbon Fiber PEI

Catlog Number: CRSM-0051

Description

High-performance continuous fiber reinforcement providing aluminum-equivalent strength for extreme aerospace and structural research.

Basic Information

Base Material: Polyetherimide

Reinforcement Type: Continuous Carbon Fiber

Reinforcement Volume (%): 0.35

Density (g/cm³): 1.45

Tensile Strength (MPa): 950

Tensile Modulus (MPa): 75000

Elongation at Break (%): 1.2

Flexural Strength (MPa): 680

Flexural Modulus (MPa): 65000

Heat Deflection Temp (0.45MPa): 205

Glass Transition Temp (Tg): 217

Melting Point (°C): -

Thermal Conductivity (W/mK): 0.85

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10^2 - 10^4

Water Absorption (%): 0.22

Printing Temp (°C): 360-395

Bed Temp (°C): 140-160

Chamber Temp (°C): 110-150

Nozzle Type: Hardened Steel

Layer Height (mm): 0.125

Shrinkage Rate (%): 0.05

Continuous Use Temp (°C): 190

Impact Strength (kJ/m²): 110

Eata 3DPrint: Your innovation partner for advanced 3D printing solutions, delivering cutting-edge services and materials to transform industries and drive progress.

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