

Carbon Fiber Reinforced TPC

Catlog Number: CRSM-0069

• Description

Flexible carbon fiber composite combining the elasticity of TPC with the structural damping and anti-static properties of carbon fiber.

• Basic Information

Base Material: Thermoplastic Copolyester

Reinforcement Type: Chopped Carbon Fiber

Reinforcement Volume (%): 0.1

Density (g/cm³): 1.22

Tensile Strength (MPa): 42

Tensile Modulus (MPa): 1800

Elongation at Break (%): 85

Flexural Strength (MPa): 58

Flexural Modulus (MPa): 1550

Heat Deflection Temp (0.45MPa): 95

Glass Transition Temp (Tg): -35

Melting Point (°C): 210

Thermal Conductivity (W/mK): 0.45

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10⁶ - 10⁸

Water Absorption (%): 0.25

Printing Temp (°C): 240-270

Bed Temp (°C): 60-90

Chamber Temp (°C): -

Fan Speed (%): 40

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.8

Continuous Use Temp (°C): 120

Impact Strength (kJ/m²): 65

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