

ESD-Safe Carbon Fiber PA612

Catlog Number: CRSM-0025

• Description

High-performance PA612 reinforced with carbon fiber and nanotubes for stable ESD dissipation and excellent dimensional stability in humid conditions.

• Basic Information

Base Material: Polyamide 612

Reinforcement Type: Carbon Fiber + CNT

Reinforcement Volume (%): 0.15

Density (g/cm³): 1.1

Tensile Strength (MPa): 84

Tensile Modulus (MPa): 4300

Elongation at Break (%): 3

Flexural Strength (MPa): 115

Flexural Modulus (MPa): 3900

Heat Deflection Temp (0.45MPa): 157

Glass Transition Temp (Tg): 75

Melting Point (°C): 215

Thermal Conductivity (W/mK): 0.4

Flame Retardancy (UL94): V-2

Surface Resistivity (Ω): 10⁴ - 10⁷

Water Absorption (%): 0.5

Printing Temp (°C): 280-300

Bed Temp (°C): 40-50

Chamber Temp (°C): 40-70

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.3

Continuous Use Temp (°C): 130

Impact Strength (kJ/m²): 5.9

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