

Ceramic-Filled Photopolymer

Catlog Number: CRSM-0065

• Description

Precision photopolymer composite with high ceramic loading for high-resolution industrial parts requiring superior thermal and electrical insulation.

• Basic Information

Base Material: Resin Matrix

Reinforcement Type: Alumina Nanoparticles

Reinforcement Volume (%): 0.35

Density (g/cm³): 1.85

Tensile Strength (MPa): 80

Tensile Modulus (MPa): 4500

Elongation at Break (%): 2.5

Flexural Strength (MPa): 110

Flexural Modulus (MPa): 4100

Heat Deflection Temp (0.45MPa): 120

Glass Transition Temp (Tg): 135

Melting Point (°C): -

Thermal Conductivity (W/mK): 0.65

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁵

Water Absorption (%): 0.15

Printing Temp (°C): -

Bed Temp (°C): -

Chamber Temp (°C): -

Fan Speed (%): -

Nozzle Type: -

Layer Height (mm): 0.025

Shrinkage Rate (%): 1.2

Continuous Use Temp (°C): 105

Impact Strength (kJ/m²): 6.5

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