



HGM-Reinforced PPS

Catlog Number: CRSM-0100

• Description

Lightweight PPS composite for buoyancy and acoustic insulation in harsh chemical environments. Excellent thermal resistance.

• Basic Information

Base Material: Polyphenylene Sulfide

Reinforcement Type: Hollow Glass Microspheres

Reinforcement Volume (%): 0.25

Density (g/cm³): 1.15

Tensile Strength (MPa): 65

Tensile Modulus (MPa): 4500

Elongation at Break (%): 2.5

Flexural Strength (MPa): 95

Flexural Modulus (MPa): 4200

Heat Deflection Temp (0.45MPa): 240

Glass Transition Temp (Tg): 95

Melting Point (°C): 285

Thermal Conductivity (W/mK): 0.22

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁶

Water Absorption (%): 0.04

Printing Temp (°C): 315-345

Bed Temp (°C): 110-130

Chamber Temp (°C): 80-100

Fan Speed (%): 10


Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.2

Continuous Use Temp (°C): 210

Impact Strength (kJ/m²): 8

 For Research or Industrial Raw Materials, Not For Personal Medical Use!