

Glass Microballoon PEEK

Catlog Number: CRSM-0089

• Description

Lightweight PEEK syntactic foam with glass microballoons, used in aerospace research for core material buoyancy and low-density insulation.

• Basic Information

Base Material: PEEK
Reinforcement Type: Hollow Glass Spheres
Reinforcement Volume (%): 0.15
Density (g/cm³): 1.15
Tensile Strength (MPa): 85
Tensile Modulus (MPa): 5500
Elongation at Break (%): 2
Flexural Strength (MPa): 125
Flexural Modulus (MPa): 5100
Heat Deflection Temp (0.45MPa): 300
Glass Transition Temp (Tg): 143
Melting Point (°C): 343
Thermal Conductivity (W/mK): 0.15
Flame Retardancy (UL94): V-0
Surface Resistivity (Ω): 10¹⁶
Water Absorption (%): 0.1
Printing Temp (°C): 380-420
Bed Temp (°C): 120-150
Chamber Temp (°C): 100-140
Nozzle Type: Hardened Steel
Layer Height (mm): 0.25
Shrinkage Rate (%): 0.15
Continuous Use Temp (°C): 250
Impact Strength (kJ/m²): 7.5

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