

Glass Microballoon Syntactic PP

Catlog Number: CRSM-0068

• Description

Ultra-lightweight syntactic foam composite with hollow glass microballoons, offering low dielectric constant and high buoyancy for marine research.

• Basic Information

Base Material: Polypropylene
Reinforcement Type: Hollow Glass Spheres
Reinforcement Volume (%): 0.2
Density (g/cm³): 0.82
Tensile Strength (MPa): 28
Tensile Modulus (MPa): 2100
Elongation at Break (%): 8
Flexural Strength (MPa): 45
Flexural Modulus (MPa): 1850
Heat Deflection Temp (0.45MPa): 115
Glass Transition Temp (Tg): -15
Melting Point (°C): 165
Thermal Conductivity (W/mK): 0.15
Flame Retardancy (UL94): HB
Surface Resistivity (Ω): 10¹⁶
Water Absorption (%): 0.05
Printing Temp (°C): 230-265
Bed Temp (°C): 85-115
Chamber Temp (°C): 50-80
Fan Speed (%): 20
Nozzle Type: Stainless Steel
Layer Height (mm): 0.3
Shrinkage Rate (%): 0.5
Continuous Use Temp (°C): 105
Impact Strength (kJ/m²): 12

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