

Basalt Fiber Reinforced ABS

Catlog Number: CRSM-0022

• Description

Eco-friendly basalt fiber reinforcement providing superior mechanical strength and X-ray shielding properties compared to standard ABS or glass fiber.

• Basic Information

Base Material: ABS
Reinforcement Type: Basalt Fiber
Reinforcement Volume (%): 0.25
Density (g/cm³): 1.25
Tensile Strength (MPa): 50
Tensile Modulus (MPa): 4800
Elongation at Break (%): 2.8
Flexural Strength (MPa): 68
Flexural Modulus (MPa): 3050
Heat Deflection Temp (0.45MPa): 98
Glass Transition Temp (Tg): 105
Melting Point (°C): -
Thermal Conductivity (W/mK): 0.32
Flame Retardancy (UL94): HB
Surface Resistivity (Ω): 10¹⁴
Water Absorption (%): 0.22
Printing Temp (°C): 230-260
Bed Temp (°C): 90-110
Chamber Temp (°C): 60-80
Fan Speed (%): 10
Nozzle Type: Hardened Steel
Layer Height (mm): 0.2
Shrinkage Rate (%): 0.4
Continuous Use Temp (°C): 85
Impact Strength (kJ/m²): 15

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