Eata 3DPrint

Superplastic Forming Core

Catlog Number: SSM-0051

Description

High-stiffness sacrificial core material designed to support thin-walled titanium components during superplastic forming processes.

Basic Information

Base Material: Ceramic-Binder Matrix

Solubility Method: Chemical Leaching

Solvent Type: Caustic Solution

Heat Deflection Temp (0.45MPa): 350

Glass Transition Temp (Tg): 380

Melting Point (°C): -

Density (g/cm³): 2.65

Water Absorption (%): 0.01

Tensile Strength (MPa): 45

Tensile Modulus (MPa): 12000

Elongation at Break (%): 0.5

Flexural Strength (MPa): 95

Flexural Modulus (MPa): 11000

Printing Temp (°C): 330-370

Bed Temp (°C): 120-150

Chamber Temp (°C): 100-140

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.05

Continuous Use Temp (°C): 320

Impact Strength (kJ/m²): 2.5

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10^15

Eata 3DPrint: Your innovation partner for advanced 3D printing solutions, delivering cutting-edge services and materials to transform industries and drive progress.

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