

Soluble PCL-Hybrid

Catlog Number: SSM-0082

• Description

Biocompatible hybrid support for tissue scaffolding; dissolves in physiological buffers over time.

• Basic Information

Base Material: PCL-PVA Composite

Solubility Method: Hydrolysis/Water

Solvent Type: PBS Buffer

Heat Deflection Temp (0.45MPa): 40

Glass Transition Temp (Tg): -55

Melting Point (°C): 60

Density (g/cm³): 1.12

Water Absorption (%): 2.5

Tensile Strength (MPa): 15

Tensile Modulus (MPa): 400

Elongation at Break (%): 450

Flexural Strength (MPa): 20

Flexural Modulus (MPa): 350

Printing Temp (°C): 90-120

Bed Temp (°C): 30-50

Chamber Temp (°C): -

Fan Speed (%): 100

Nozzle Type: Brass

Layer Height (mm): 0.1


Shrinkage Rate (%): 1.8

Continuous Use Temp (°C): 35

Impact Strength (kJ/m²): 35

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10¹⁵

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