

Composite Layup Sacrificial

Catlog Number: SSM-0011

• Description

High-modulus soluble polymer designed for creating sacrificial tooling and mandrels for composite layup and autoclave curing processes.

• Basic Information

Base Material: Specialized Soluble Polymer

Solubility Method: Water

Solvent Type: Warm Water

Heat Deflection Temp (0.45MPa): 135

Glass Transition Temp (Tg): 145

Melting Point (°C): 225

Density (g/cm³): 1.28

Water Absorption (%): 8

Tensile Strength (MPa): 52

Tensile Modulus (MPa): 3500

Elongation at Break (%): 5

Flexural Strength (MPa): 95

Flexural Modulus (MPa): 3200

Printing Temp (°C): 260-290

Bed Temp (°C): 110-130

Chamber Temp (°C): 90-110

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.15

Continuous Use Temp (°C): 120

Impact Strength (kJ/m²): 12

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁵

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