

Crushable Mandrel Material

Catlog Number: SSM-0032

• Description

Specifically engineered brittle sacrificial material for pressure vessel winding; designed to shatter and be removed easily after curing.

• Basic Information

Base Material: Modified Brittle Copolymer

Solubility Method: Mechanical/Crushing

Solvent Type: None

Heat Deflection Temp (0.45MPa): 105

Glass Transition Temp (Tg): 115

Melting Point (°C): 220

Density (g/cm³): 1.12

Water Absorption (%): 0.1

Tensile Strength (MPa): 25

Tensile Modulus (MPa): 4500

Elongation at Break (%): 1.5

Flexural Strength (MPa): 35

Flexural Modulus (MPa): 4200

Printing Temp (°C): 240-270

Bed Temp (°C): 90-110

Chamber Temp (°C): 60-80

Fan Speed (%): 10

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.3

Continuous Use Temp (°C): 90

Impact Strength (kJ/m²): 2.5

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10¹⁵

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