

## Soluble TPE-E Support

Catlog Number: SSM-0033

### • Description

Water-soluble elastomer support optimized for soft robotics, allowing for the creation of internal air bladders and flexible joints.

### • Basic Information

Base Material: Polyether-Ester Blend

Solubility Method: Water

Solvent Type: Warm Water

Heat Deflection Temp (0.45MPa): 42

Glass Transition Temp (Tg): -45

Melting Point (°C): 165

Density (g/cm<sup>3</sup>): 1.14

Water Absorption (%): 12

Tensile Strength (MPa): 15

Tensile Modulus (MPa): 450

Elongation at Break (%): 600

Flexural Strength (MPa): 18

Flexural Modulus (MPa): 400

Printing Temp (°C): 215-240

Bed Temp (°C): 40-60

Chamber Temp (°C): -

Fan Speed (%): 40

Nozzle Type: Brass

Layer Height (mm): 0.25

Shrinkage Rate (%): 1.4

Continuous Use Temp (°C): 40

Impact Strength (kJ/m<sup>2</sup>): 75

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10<sup>12</sup>

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