Eata 3DPrint

Cryogenic Breakaway

Catlog Number: SSM-0049

Description

Support material that becomes extremely brittle under cryogenic cooling, allowing for instant "snap-off" removal without tools.

Basic Information

Base Material: Modified Polyolefin

Solubility Method: Mechanical

Solvent Type: None (Brittle at Low Temp)

Heat Deflection Temp (0.45MPa): 95

Glass Transition Temp (Tg): 105

Melting Point (°C): 190

Density (g/cm³): 0.92

Water Absorption (%): 0.01

Tensile Strength (MPa): 22

Tensile Modulus (MPa): 1200

Elongation at Break (%): 15

Flexural Strength (MPa): 38

Flexural Modulus (MPa): 1050

Printing Temp (°C): 210-240

Bed Temp (°C): 80-100

Chamber Temp (°C): 60

Fan Speed (%): 20

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 1.2

Continuous Use Temp (°C): 90

Impact Strength (kJ/m²): 20

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10^16

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

Tel: 1-631-637-0420 | 1-631-533-0595
Email: info@eataray.com
Suite 103, 17 Ramsey Road, Shirley, NY 11967, USA