

## Deformable Sodium Metal Collector

Catlog Number: BMBCC-0083

### • Description

Plastically deformable sodium metal substrate designed to accommodate volume changes in anode-free solid-state batteries.

### • Basic Information

Substrate Material: Sodium Metal

Purity (%):  $\geq 99.8$

Thickness ( $\mu\text{m}$ ): 100

Width (mm): 50

Areal Density ( $\text{g}/\text{m}^2$ ): 95 - 100

Tensile Strength (MPa):  $\geq 10$

Elongation (%):  $\geq 50.0$

Surface Finish: Extruded

Surface Roughness ( $R_a$ ,  $\mu\text{m}$ ): N/A

Electrical Resistivity ( $\Omega\cdot\text{m}$ ):  $4.8 \times 10^{-8}$

Thermal Conductivity ( $\text{W}/\text{m}\cdot\text{K}$ ): 142

Melting Point ( $^{\circ}\text{C}$ ): 97.8

Oxidation Resistance (Temp/Time): N/A

Coating Type: N/A

Coating Thickness ( $\mu\text{m}$ ): N/A

Core ID (mm): N/A

Standard Length (m): 0.1 (Piece)

Operating Voltage Range (V): 0.0 - 1.0

Application Compatibility: Solid-State Anode

Storage Requirements: Ar-Glovebox

Form Factor: Sheet

Hydrophilic Properties: Self-healing

Compliance / Grade: Lab Grade

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