

## Flexible Graphite Current Collector

Catlog Number: BMBCC-0080

### • Description

Highly flexible, lightweight graphite sheet offering unmatched chemical resistance and high thermal management capabilities.

### • Basic Information

Substrate Material: Pure Graphite

Purity (%): C:  $\geq 99.5$

Thickness ( $\mu\text{m}$ ): 50

Width (mm): 300

Areal Density ( $\text{g}/\text{m}^2$ ): 60 - 70

Tensile Strength (MPa):  $\geq 15$

Elongation (%):  $\geq 2.0$

Surface Finish: Smooth Black

Surface Roughness ( $R_a$ ,  $\mu\text{m}$ ):  $\leq 1.20$

Electrical Resistivity ( $\Omega\cdot\text{m}$ ):  $8.0 \times 10^{-6}$

Thermal Conductivity ( $\text{W}/\text{m}\cdot\text{K}$ ): 150 (Plane)

Melting Point ( $^{\circ}\text{C}$ ): 3650

Oxidation Resistance (Temp/Time):  $450^{\circ}\text{C}$  / 60min

Coating Type: N/A

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

Core ID (mm): 76

Standard Length (m): 100

Operating Voltage Range (V): 0.0 - 5.5

Application Compatibility: Bipolar Plates

Storage Requirements: Room Temp

Form Factor: Roll

Hydrophilic Properties: Heat Dissipation

Compliance / Grade: Lab Grade

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