

## 80 $\mu$ m Carbon-Fiber Gas Diffusion Layer

Catlog Number: BMSM-0053

### • Description

Ultra-high porosity metal-coated carbon fiber sheet designed as a gas diffusion layer (GDL) for high-rate Li-O<sub>2</sub> battery cathodes.

### • Basic Information

Base Material: Carbon Fiber

Coating Type: Metal Coated

Thickness ( $\mu$ m): 80

Porosity (%): 98

Gurley Value (s/100mL): < 5

Puncture Strength (gf): 180

Tensile MD (kg/cm<sup>2</sup>): 85

Tensile TD (kg/cm<sup>2</sup>): 60

Elongation MD (%): 5

Elongation TD (%): 5

Shrinkage MD (120°C): < 0.1%

Shrinkage TD (120°C): < 0.1%

Melt Temp (°C): > 1000

Shutdown Temp (°C): N/A

Dielectric (V/ $\mu$ m): Conductive

Wettability: Superior

Ionic Cond. (mS/cm): N/A


Water (ppm): < 100

Basis Weight (g/m<sup>2</sup>): 2

Pore Size ( $\mu$ m): 30

Appearance: Black

Packaging: Sheet

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