

## Hydrophilic Carbon Paper (Toray Type)

Catlog Number: BMBCC-0085

### • Description

High-porosity gas diffusion layer modified with hydrophilic treatment for improved electrolyte wetting in flow batteries.

### • Basic Information

Substrate Material: Carbon Fiber

Purity (%): C:  $\geq 99$

Thickness ( $\mu\text{m}$ ): 190

Width (mm): 200

Areal Density ( $\text{g}/\text{m}^2$ ): 85 - 90

Tensile Strength (MPa):  $\geq 50$

Elongation (%): N/A

Surface Finish: Fibrous

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

Electrical Resistivity ( $\Omega\cdot\text{m}$ ):  $8.0 \times 10^{-4}$

Thermal Conductivity ( $\text{W}/\text{m}\cdot\text{K}$ ): 1.7 (Z-axis)

Melting Point ( $^{\circ}\text{C}$ ): 3500

Oxidation Resistance (Temp/Time):  $400^{\circ}\text{C}$  / 60min

Coating Type: Hydrophilic

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

Core ID (mm): N/A

Standard Length (m): 0.5 (Sheet)

Operating Voltage Range (V): 0.0 - 1.5

Application Compatibility: Redox Flow Battery

Storage Requirements: Room Temp

Form Factor: Sheet

Hydrophilic Properties: Rapid Wetting

Compliance / Grade: Technical Grade

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