Eata Battery

Fluoropolymer-Impregnated Carbon Paper

Catlog Number: FCSM-0061

Description

High-durability GDL substrate impregnated with FEP (Fluorinated Ethylene Propylene) for enhanced structural stiffness and hydrophobic water management.

Basic Information

Material Composition: Carbon Fiber / FEP

Thickness (μm): 210

Density (g/cm³): 0.48

Surface Resistance (mΩ·cm²): < 12

Tensile Strength (MPa): 30

Thermal Conductivity (W/m·K): 1.6

Porosity (%): 75

Operating Temp Max (°C): 200

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): Excellent

Contact Angle (°): 130

Gas Permeability (cm³/cm²·s): 45

Coefficient of Thermal Expansion (10^{-6}/K): 2.8

Shore Hardness: N/A

Water Uptake (%): N/A

Ash Content (%): < 0.05

Mean Pore Size (μm): 40

Compressive Strength (MPa): 1.2

Electrical Conductivity (S/cm): 240

Specific Surface Area (m²/g): 0.8

Young's Modulus (GPa): 9

Chemical Stability: High Stability

Coating Material: FEP

Surface Roughness (Ra): 2.5

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