Eata Battery

Zirconium Phosphate (ZrP) Binder

Catlog Number: FCSM-0073

Description

An inorganic structural binder used to enhance the mechanical integrity and proton conductivity of composite membranes in high-temperature PEMFCs.

Basic Information

Material Composition: Zirconium Phosphate

Thickness (μm): N/A

Density (g/cm³): 3.3

Surface Resistance (mΩ·cm²): N/A

Tensile Strength (MPa): 40 (as Film)

Thermal Conductivity (W/m·K): 0.25

Porosity (%): N/A

Operating Temp Max (°C): 300

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): High

Contact Angle (°): 45

Gas Permeability (cm³/cm²·s): N/A

Coefficient of Thermal Expansion (10^{-6}/K): 7.5

Shore Hardness: N/A

Water Uptake (%): 15

Ash Content (%): 100

Mean Pore Size (μm): N/A

Compressive Strength (MPa): N/A

Electrical Conductivity (S/cm): 0.08 (Ionic)

Specific Surface Area (m²/g): 45

Young's Modulus (GPa): 12

Chemical Stability: Acid Stable

Coating Material: Liquid/Powder

Surface Roughness (Ra): N/A

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

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