Eata Battery

Liquid Form-In-Place Gasket (FIPG)

Catlog Number: FCSM-0027

Description

A two-component, low-viscosity silicone sealant designed for high-speed automated dispensing directly onto bipolar plates for precision fuel cell sealing.

Basic Information

Material Composition: Two-part Silicone

Thickness (μm): 400

Density (g/cm³): 1.1

Surface Resistance (mΩ·cm²): Insulator

Tensile Strength (MPa): 5

Thermal Conductivity (W/m·K): 0.2

Operating Temp Max (°C): 200

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): Excellent

Contact Angle (°): 100

Gas Permeability ($cm^3/cm^2 \cdot s$): < $5x10^{-8}$

Coefficient of Thermal Expansion (10^{-6}/K): 250

Shore Hardness: 40 (Shore A)

Water Uptake (%): < 0.2

Ash Content (%): < 0.1

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 2 (at 25%)

Electrical Conductivity (S/cm): < 10^{-12}

Specific Surface Area (m^2/g): N/A

Young's Modulus (GPa): 0.005

Chemical Stability: Hydrolysis Resistant

Coating Material: None

Surface Roughness (Ra): 0.5

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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