Eata Battery

Ultra-Thin PVDF Structural Film

Catlog Number: FCSM-0093

Description

High-purity PVDF film used as a structural insulation layer and chemical barrier in low-temperature fuel cell components and humidifiers.

Basic Information

Material Composition: Pure PVDF

Thickness (μm): 25

Density (g/cm³): 1.78

Surface Resistance (mΩ·cm²): Insulator

Tensile Strength (MPa): 55

Thermal Conductivity (W/m·K): 0.13

Operating Temp Max (°C): 150

Flexural Strength (MPa): N/A

Corrosion Resistance (μA/cm²): Excellent

Contact Angle (°): 85

Gas Permeability ($cm^3/cm^2 \cdot s$): $< 10^{-10}$

Coefficient of Thermal Expansion ($10^{-6}/K$): 120

Shore Hardness: 75 (Shore D)

Water Uptake (%): < 0.05

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 100

Electrical Conductivity (S/cm): $< 10^{-15}$

Specific Surface Area (m²/g): N/A

Young's Modulus (GPa): 2.5

Chemical Stability: Acid Stable

Coating Material: None

Surface Roughness (Ra): 0.1

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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