

Glass-Fiber Reinforced PPS End Plate

Catlog Number: FCSM-0016

• Description

A high-strength structural end plate made from 40% glass-fiber reinforced PPS, designed to provide uniform clamping pressure and chemical insulation for fuel cell stacks.

• Basic Information

Material Composition: PPS + 40% Glass Fiber

Thickness (μm): 15000

Density (g/cm^3): 1.65

Surface Resistance ($\text{m}\Omega\cdot\text{cm}^2$): Insulator

Tensile Strength (MPa): 160

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 0.3

Operating Temp Max ($^{\circ}\text{C}$): 220

Flexural Strength (MPa): 240

Corrosion Resistance ($\mu\text{A}/\text{cm}^2$): Excellent

Contact Angle ($^{\circ}$): 85

Coefficient of Thermal Expansion ($10^{-6}/\text{K}$): 20

Shore Hardness: 88 (Shore D)

Water Uptake (%): < 0.05

Ash Content (%): 40 (Fiber)

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 220

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


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

Young's Modulus (GPa): 14

Chemical Stability: Resistant to Glycol

Coating Material: None

Surface Roughness (R_a): 1.5

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