

Reinforced Polyurethane Fuel Cell Adhesive

Catlog Number: FCSM-0031

• Description

A chemically resistant, high-bond-strength polyurethane adhesive used for joining stack components and securing balance-of-plant (BOP) fittings.

• Basic Information

Material Composition: Toughened Polyurethane

Thickness (μm): 250

Density (g/cm^3): 1.18

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

Tensile Strength (MPa): 25

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 0.35

Operating Temp Max ($^{\circ}\text{C}$): 130

Flexural Strength (MPa): N/A

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

Contact Angle ($^{\circ}$): 80

Gas Permeability ($\text{cm}^3/\text{cm}^2\cdot\text{s}$): $< 4\times 10^{-8}$

Coefficient of Thermal Expansion ($10^{-6}/\text{K}$): 180

Shore Hardness: 60 (Shore D)

Water Uptake (%): < 1

Ash Content (%): 0.5

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 40

Electrical Conductivity (S/cm): $< 10^{-11}$

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

Young's Modulus (GPa): 1.2

Chemical Stability: Glycol Resistant

Coating Material: None

Surface Roughness (Ra): 1.2

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