

Conductive Silicone Rubber Sheet

Catlog Number: FCSM-0022

• Description

A carbon-filled silicone elastomer sheet that provides both gas sealing and electrical grounding for peripheral stack components.

• Basic Information

Material Composition: Silicone / Carbon Black

Thickness (μm): 1000

Density (g/cm^3): 1.25

Surface Resistance ($\text{m}\Omega\cdot\text{cm}^2$): < 50

Tensile Strength (MPa): 6

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 1.5

Operating Temp Max ($^{\circ}\text{C}$): 200

Flexural Strength (MPa): N/A

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

Contact Angle ($^{\circ}$): 105

Gas Permeability ($\text{cm}^3/\text{cm}^2\cdot\text{s}$): $< 10^{-7}$

Coefficient of Thermal Expansion ($10^{-6}/\text{K}$): 220

Shore Hardness: 70 (Shore A)

Water Uptake (%): < 0.8

Ash Content (%): 20

Mean Pore Size (μm): N/A

Compressive Strength (MPa): 12

Electrical Conductivity (S/cm): 25

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

Young's Modulus (GPa): 0.015

Chemical Stability: Weather Resistant

Coating Material: None

Surface Roughness (Ra): 1

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