

ME-2000

RF Isolation Fabric



ME-2000 is a simple solution for effective RF signal attenuation in many commercial applications. It provides -80 dB RF isolation from 50 MHz to 18 GHz. Very light, thin, flexible, wear and tear resistant, it can be applied directly to studs, standard sheetrock and other structures using simple and inexpensive methods. The product is well suited to both new and retrofit construction. It provides a moderate degree of isolation. It offers significant savings in labor, shipping and construction costs and needs virtually no physical space unlike competitive materials.

ME-2000 does not require specialized tools or techniques to apply. This flexible product comes in rolls. Special shapes can be fabricated for custom applications. It can be modified to your specific requirements.

Typical Applications:

- Wideband EMI Shielding
- Thermal Radiation Shielding

Features:

- Minimum of -80 dB isolation from 50 MHz to 18 GHz
- Good Flexibility
- Corrosion Resistant
- High Wear
- Tear Resistant
- High Tensile Strength
- POL (Petroleum, Oil, Lubricant) Resistant
- Fire resistant (UL 94 V0 rated)

Construction:

Isolation shield composite flexible panel, consisting of high grade isolation ground plane.

Size:

ME-2000 Typically supplied in rolls of 54 in (137 cm). It can be cut to customer size requirements.

Color: Silver

Performance: -80 dB RF isolation from 50 MHz to 18 GHz

Mechanical Properties:

Effects of Liquids Oil:	No adverse effects after 1000 hours (ASTM-B-117)
Effects of Liquids, Water:	Less than 6% increase in volume (ASTM-D-471)
Thermal Stability:	Range of -40°F to 160°F
Low Temperature Impact:	-20°F, 1.5 ft. lbs., and no adverse effects
Thermal Cycles:	10 cycles, 1 hr/-20°F - 1 hr/70° F, no adverse effects
Visual Defects:	Uniform surface texture and appearance
Hazardous Material:	None
Thickness:	Typically, 0.05 inches (0.0127 cm)
Weight:	Typically, less than 0.1 lbs. per square foot (0.45 kg/m ²)