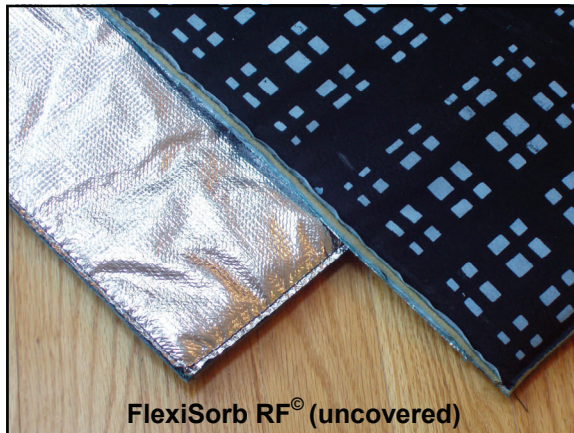




FlexiSorb RF[®]

High Performance
RF Absorber



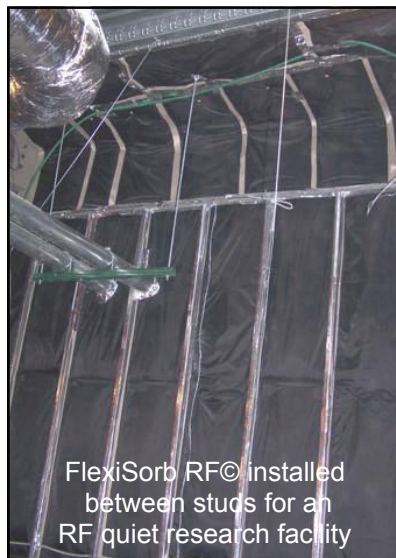
FlexiSorb RF[®] (uncovered)



Custom made shape

FlexiSorb RF[®] is a unique high performance RF Absorbing material. FlexiSorb RF[®] can be tuned to provide a peak of > -20 dB in the range between 1 GHz and 18 GHz (contact us for specific bandwidth capabilities).

FlexiSorb RF[®] is covered in durable nylon pack cloth or PVC. It is flexible, corrosion resistant, has durable outer surfaces, is tear resistant, has a high tensile strength, and is POL (Petroleum, Oil, Lubricant) resistant. The seams can be waterproofed for outdoor applications, It can also be made fire resistant for interior installations.



FlexiSorb RF[®] installed
between studs for an
RF quiet research facility

FlexiSorb RF[®] can be installed between studs behind standard sheet rock, or wall and ceiling panels. It provides significant savings in installation labor and takes up far less space when compared to traditional RF absorbers. It requires no specialized tools or techniques.

This flexible product comes in standard size sheets or can be fabricated and sewn to your specific size and shape requirements. It is perfect for use in or over electronic equipment.

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Typical applications:

- RF quiet rooms and zones.
- Allows electronic processing power to be located near RF sources.
- Allows higher field strength, higher resolution and therefore better data.
- Isolation of noisy RF sources to protect sensors and receivers.
- Isolation of and protection from cellular phone transmission towers.

Construction:

- Single sided absorber composite flexible panel, consisting of resistive materials, separators and ground plane. Covered in a durable waterproof outer cover of PVC or urethane.

Thickness:

- Typically 0.25 inches (0.64 cm).

Weight:

- Typically less than 0.5 lb/ft² (2.5 kg/m²).

Color:

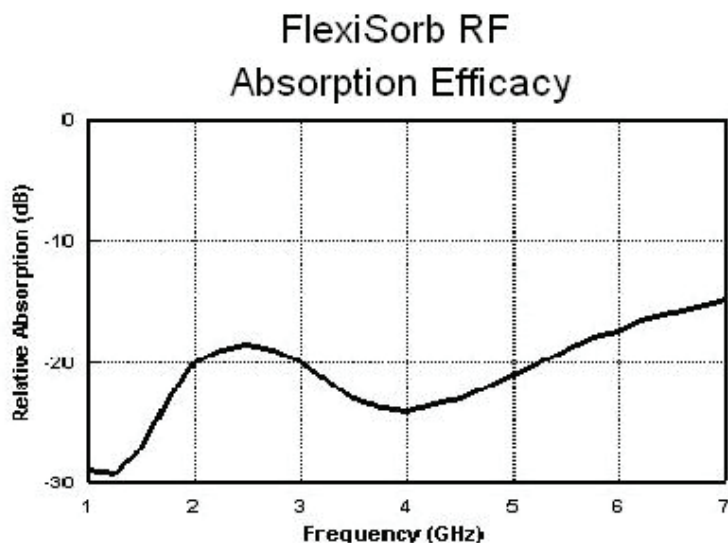
- Black or Gray Standard, other colors upon customer request.

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 (-29° C to 71° C).
- Low Temperature Impact: -20° F (-29° C), 1.5 lb (0.68 kg), no adverse effects.
- Thermal: 10 cycles 1 hr/-20° F (-29° C) - 1 hr/70° F (21.1° C), no adverse effects.
- Visual Defects: Uniform surface appearance and texture.
- Hazardous Materials: None.

Electrical Performance:

- Attenuation is from normal incidence up to 45°.
- Performances are stated in either polarization.



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