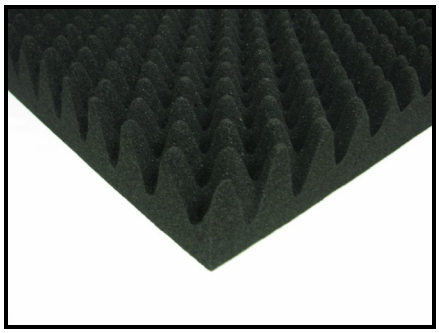
Convoluted Foam Absorber

MF32-0001-00



MAST Technologies' Convoluted Foam Absorber product series is a lightweight conductive carbon loaded sheet stock providing broadband reflection loss at microwave frequencies. Due to the shape of the cones on Convoluted Foam Absorbers, they exhibit high reflection loss and are intended to be applied to metal surfaces inside test boxes, housings, radomes, network enclosures, or antennae. Convoluted Foam Absorbers attenuate energy at normal and high angles of incidence at frequencies from 1 GHz to 18 GHz.

APPLICATIONS

RF Test Boxes/Fixtures

Antenna Pattern Performance

Sidelobe/backlobe reduction

Resonant Cavity Attenuation

EMI Reduction

Rx/Tx Antenna Isolation

Radar Cross Section Reduction

FEATURES & BENEFITS

Lightweight foam

Cost effective broadband material

Easily applied with PSA

Most broadband absorber material

RoHS Compliant

Halogen Free

TYPICAL PROPERTIES

Thickness: 1.50" (38.4mm)

Adhesive Thickness: 0.005" (0.12mm)

Color: Black

Operating Temperature: -60°F to 250°F

Flammability Rating: UL94-HF1 Available

PART NUMBERING: MF32-0001-XX

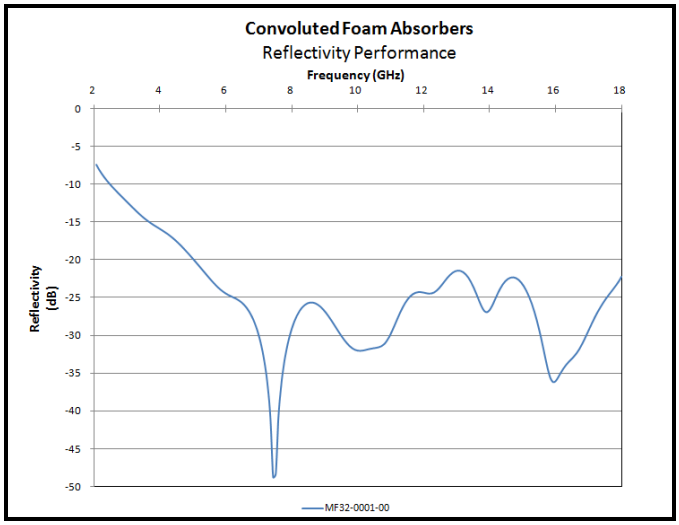
00: No PSA backing

01: PSA backing

>10: Die Cut

ELECTRICAL PERFORMANCE

This performance plot illustrates the reflectivity performance of this material. Reflectivity is measured in an NRL Arch, for more information on the NRL Arch test set-up, please refer to Tech Bulletin 101. Additional electrical test data may be available upon request.



METHOD OF APPLICATION

The primary method of application for Convoluted Foam Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. MAST proudly uses 3M transfer tapes on it's Convoluted Foam Absorbers. Contact MAST technical representatives for a datasheet on the PSA.

Other liquid and paste adhesive may be recommended. Contact a MAST technical representative for more information.

AVAILABILITY

Standard Sheet Sizes: 24" x 24" (615 x 615mm)

Custom Sizes Available

Format: Sheets, Die Cut

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All information on this data sheet is based on laboratory testing and is not intended for design purposes.
MAST Technologies makes no representations or warranties of any kind concerning this data.