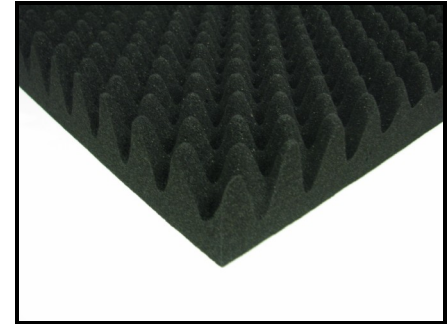




Convolved Foam Absorber

MF32-0002-00

MAST Technologies' Convolved 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 Convolved 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. Convolved 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

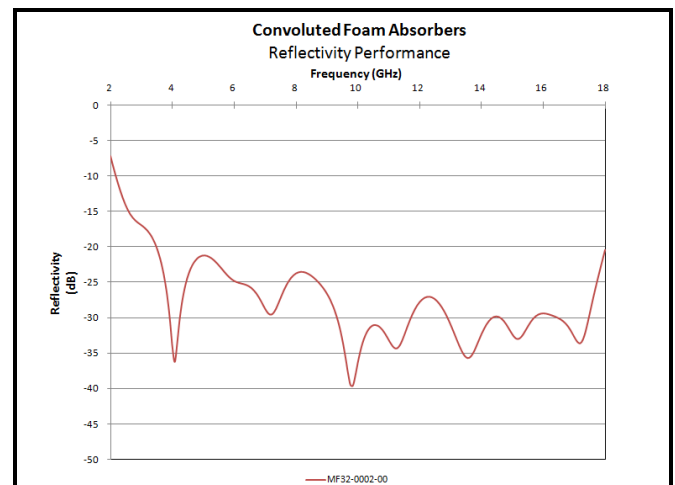
- Thickness: 3.0" (76.9mm)
- Adhesive Thickness: 0.005" (0.12mm)
- Color: Black
- Operating Temperature: -60°F to 250°F
- Flammability Rating: UL94-HF1 Available

PART NUMBERING: MF32-0002-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 Convolved Foam Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. MAST proudly uses 3M transfer tapes on its Convolved Foam Absorbers. Contact MAST technical representatives for a data-sheet 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)
- 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.