Lossy Foam Absorber

MF22-0009-00

MAST Technologies' Lossy Foam Absorber product series is a lightweight conductive carbon loaded sheet stock providing broadband insertion loss at microwave frequencies. Lossy Foam Absorbers are designed with a continuous electrical coating to exhibit high insertion loss and are intended to be applied to surfaces inside microwave cavities, housings, radomes, network enclosures, or antennae. Lossy Foam Absorbers attenuate energy at normal and high angles of incidence at frequencies from 1 GHz to 18 GHz.

APPLICATIONS

- Antenna Pattern Performance
- Sidelobe/backlobe reduction
- Resonant Cavity Attenuation
- EMI Reduction
- Rx/Tx Antenna Isolation
- Radar Cross Section Reduction
- Dual use air filter/EMI absorber

FEATURES & BENEFITS

- Lightweight polyether reticulated foam
- Cost effective broadband material
- Easily applied with PSA
- Most broadband absorber material
- RoHS Compliant
- Halogen Free

TYPICAL PROPERTIES

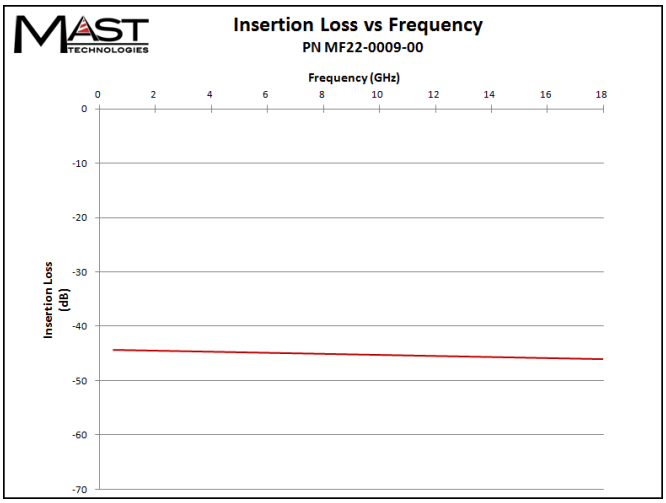
- Thickness: 1.0" (25.4mm)
- Adhesive Thickness: 0.005" (0.12mm)
- Color: Black
- Operating Temperature: -60°F to 250°F
- Flammability Rating: UL94-HF1 Available

PART NUMBERING: MF22-0009-XX

- 00: No PSA backing
- 01: PSA backing
- >10: Die Cut

ELECTRICAL PERFORMANCE

This performance plot illustrates the insertion loss performance of this material. Insertion loss is measured in a transmission tunnel, for more information on the transmission tunnel test set-up, please refer to Tech Bulletin 103. Additional electrical test data may be available upon request.



METHOD OF APPLICATION

The primary method of application for Lossy Foam Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. MAST proudly uses 3M transfer tapes on it's Lossy 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" (564 x 564mm)

Format: Sheets, Die Cut

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