Engineering Design Kit Contents

MAST Technologies' Engineering Design Kit contains just a sample of products available. These samples are intended to be cut and utilized during the design process for cavity resonance disruption, surface wave attenuation, reflection loss or insertion loss. For further information or how to integrate these materials, please contact a MAST Technologies Technical Representative.

MAST Part Number	Type	Thickness (inch/mm)	Frequency (GHz)
MR21-0001-01	Cavity Resonance	0.020/0.5	14 to 40 GHz
MR21-0003-01	Cavity Resonance	0.040/1.0	9 to 14 GHz
MR21-0005-01	Cavity Resonance	0.060/1.5	5 to 9 GHz
MR21-0007-01	Cavity Resonance	0.080/2.0	3 to 7 GHz
MR51-0002-02	Low Frequency	0.020/0.5	50 MHz to 4 GHz
MR51-0006-02	Low Frequency	0.040/1.0	50 MHz to 4 GHz
MF11-0002-01	Reticulated Foam	0.500/12.8	8 to 40 GHz
MF22-0001-01	Lossy Foam	0.125/3.2	1 to 20 GHz
MS32-0002-00	Suppress-n-Sink Absorber + Thermal Pad	0.040/1.0	1.0 to 8 GHz
MS32-0004-00	Suppress-n-Sink Absorber + Thermal Pad	0.080/2.0	0.5 to 12 GHz

www.masttechnologies.com | ISO9001, AS9100 Certified | ITAR Registered

MAST TECHNOLOGIES

Innovative Materials for Integrated Solutions

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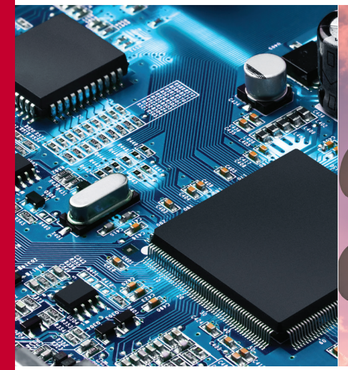
sales@masttechnologies.com

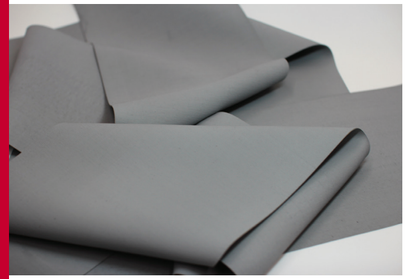
Designed and Manufactured in San Diego, California, U.S.A.

MAST TECHNOLOGIES



Innovative Materials for Integrated Solutions

RF Absorbing Elastomers



Features and Benefits

- Thin form factor
- Tough material can survive outdoor exposure
- RoHS Compliant/Halogen Free
- UL-94 Rated

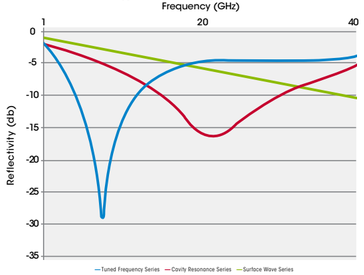
Typical Applications

- Concealment
- Electronic enclosures
- Antenna systems
- Wireless networking equipment
- Test and measurement systems

Performance Specifications

Thicknesses:	0.010" to 0.150"	**Operating Temp (°F):**	-60 to 375
RoHS Compliant:	Yes	**Sheet Sizes:**	12" x 12" 12" x 24" 24" x 24"
UL94-V0 Rated:	Yes	**PSA Available:**	Standard with -01 suffix

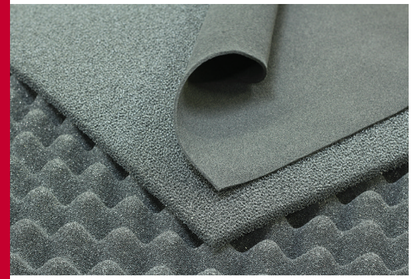
Typical Reflectivity Performance



Product Series	Frequency Range	Attenuation Type	Performance
MR1 – Tuned Frequency	Tuned from 1.0 to 100.0 GHz	Narrowband specular reflection loss	-20 dB at frequency of design
MR2 – Cavity Resonance	Broadband from 1.0 to 40.0 GHz	Cavity resonance reduction	-10 dB within the performance band
MR3 – Surface Wave	Broadband from 1.0 to 40.0 GHz	High loss surface wave attenuation	-10 dB within the performance band
MR5 – Low Frequency	Broadband from 50 MHz to 3 GHz	Insertion Loss or Mode Suppression	-10 dB within the performance band

*Part numbering and further technical data available at **www.masttechnologies.com***

RF Absorbing Foam



Features and Benefits

- Lightweight
- Broadband performance
- RoHS Compliant/Halogen Free

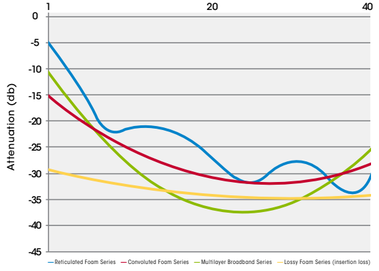
Typical Applications

- Antenna systems
- Millimeter wave technologies
- PIM reduction
- Wireless networking equipment
- Test and measurement systems

Performance Specifications

Thicknesses:	0.062" to 4.5"	**Operating Temp (°F):**	-40 to 220
RoHS Compliant:	Yes	**Sheet Sizes:**	12" x 12" 24" x 24"
UL94 Rated:	Optional	**PSA Available:**	Standard with -01 suffix

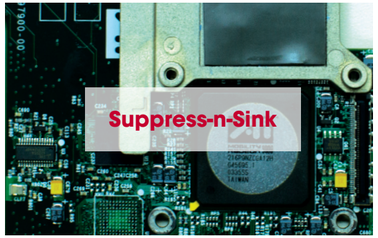
Typical Attenuation Performance

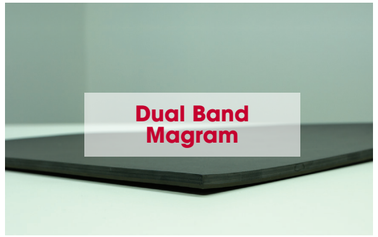


Product Series	Frequency Range	Attenuation Type	Performance
MF11 – Reticulated Foam	4.0 to 100.0 GHz	Broadband multiple angle reflection loss	-30dB within the performance band
MF22 – Lossy Foam	0.5 to 40 GHz	Broadband insertion loss	-30dB within the performance band
MF32 – Convoluted Foam	4.0 to 100 GHz	Broadband multiple angle reflection loss	-20dB within the performance band
MF51 – Multilayer Broadband	0.5 to 40.0 GHz	Broadband multiple angle reflection loss	-30dB within the performance band

*Part numbering and further technical data available at **www.masttechnologies.com***

Other Product Areas





*Contact a **MAST Technologies** technical representative for more information on the products list above.*