

**RAM-RF001 Reticulated Foam Absorber Material****Product overview**

Shielding Solutions Reticulated Foam Absorber product series is a lightweight conductive carbon loaded sheet stock providing broadband loss at microwave frequencies. Reticulated Foam Absorbers are designed with a continuous gradient coating to exhibit high reflection loss and are intended to be applied to metal surfaces inside microwave cavities, housings, radomes, network enclosures, or antennae. Reticulated Foam Absorbers attenuate energy at normal and high angles of incidence at frequencies from 10 GHz to 100 GHz..

**Properties**

Thickness - mm	9.5 - 32
Adhesive Thickness	0.12mm
Operating Temperature (°C)	-50 to 120
Colour	Black
Flammability Rating	UL94-HF1 Available

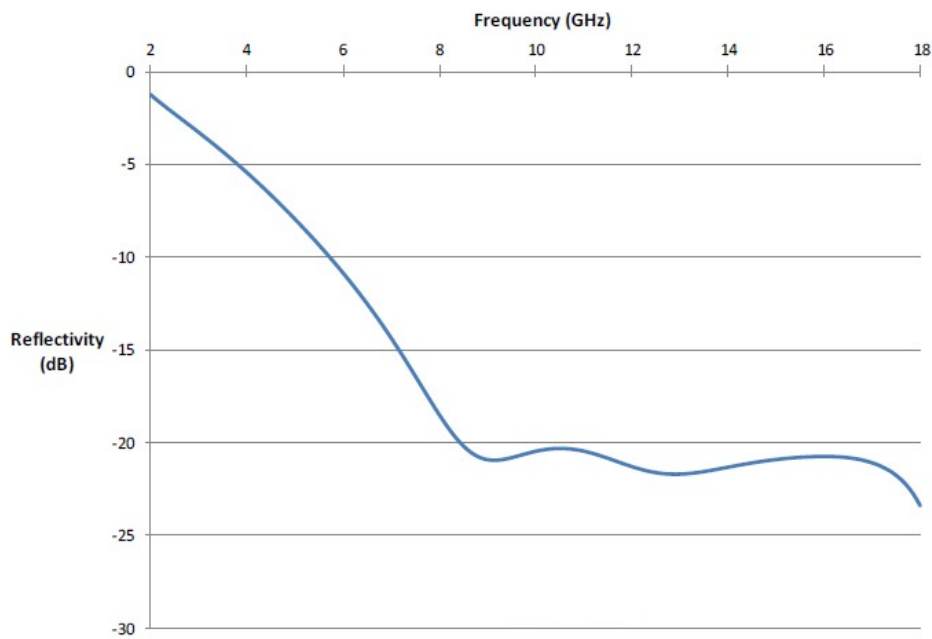
**Availability**

- Standard sheets are 610 x 610mm (24"x24") with or without PSA
- Custom Sizes available
- The material can also be supplied in customized shapes

**RAM-RF001 Reticulated Foam Absorber Material**

**Shielding Effectiveness**

**Reticulated Foam Absorbers  
Reflectivity Performance**



This performance plot illustrates the reflection loss performance of this material. Reflection loss is measured on an NRL arch, for more information on the NRL arch test set-up.

**Application**

The primary method of application for Reticulated Foam Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. Shielding Solutions uses 3M transfer tapes on it's Reticulated Foam Absorbers. Contact Shielding Solutions for a datasheet on the PSA. Other liquid and paste adhesive may be recommended. Contact Shielding solutions for more information.

**RAM-RF001 Reticulated Foam Absorber Material****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 and Benefits of Use**

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

Shielding Solutions Ltd  
410 Avenue West  
Skyline 120  
Great Notley  
Essex  
CM77 7AA

Tel: 01376 330033

Fax:01376 339163

Web: [www.shielding-solutions.com](http://www.shielding-solutions.com)