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**Product
Bulletin**

200-06

MICROSORB MTL

Lightweight, Flexible Broadband Absorber

GENERAL DESCRIPTION

MICROSORB MTL is a light weight, flexible broadband microwave absorber ideally suited for reducing reflections over a wide range of frequencies. **MICROSORB MTL** achieves its broadband performance through a multi-layer design which guarantees excellent performance at all frequencies within the band. **MICROSORB MTL** consists of discrete layers of foam material with precision conductive loadings.

MICROSORB MTL can be used to reduce unwanted reflections in a wide variety of applications such as anechoic enclosures, shielding antenna or target test mounts, and modifying the radiation pattern of microwave antennas. A common use is inside horn antennas to reduce unwanted back-lobe and side-lobe radiation.

MICROSORB MTL is very simple to install and use. It can be cut to shape with scissors or a sharp knife (an electric kitchen knife is ideal). The thinner types drape easily over complex shapes and all types can be attached by hanging on pegs (non-metallic for best electrical performance) or with adhesive for a more permanent installation.

APPLICATION

We offers the addition of

- ❖ Pressure Sensitive Transfer Adhesive on the back surface, for ease of application.
- ❖ EMI Metal Foil on the back surface to provide a ground plane.
- ❖ Fabrication of material into shapes to your specific drawing requirements. We offer die-cutting, water-jet, slitting or spraying services.

SPECIFICATIONS

MICROSORB MTL PHYSICAL DATA			
Microsorb MTL Grade	Reflectivity Range > -20 dB	Thickness (inches)	WEIGHT (lbs/ft ²)
MTL-72	> 20 GHz	0.25	0.20
MTL-73	> 7.5 GHz	0.38	0.30
MTL-74	> 3.5 GHz	0.75	0.40
MTL-75	> 2.4 GHz	1.25	0.55
MTL77-	> 1.2 GHz	2.25	0.80
MTL-79	> 600 MHz	4.50	1.80

Color	Front-Blue
Service Temperature, max, °F (°C)	250 (120)
Power Handling, W/cm ²	0.252

SIZES

MIROSORB MTL standard size is 2 ft by 2 ft but other sizes are available upon request. **MTL** can be precision cut to your specification. The referenced **MTL** types are available as standard products. However, if your application requires better or a specified amount of performance over a frequency range (e.g. -30 dB in a particular band), our tight manufacturing controls enable quick, inexpensive modifications to tune the absorber to the specified performance. Ask one of our application engineers for details.

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.
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