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**Product
Bulletin**

400-02

MICROSORB MT-S
High-Loss Magnetic Absorber

GENERAL DESCRIPTION

MICROSORB MT-S is a series of high loss magnetically loaded silicone elastomeric rubber material suitable for use as terminations, loads, attenuators and in the suppression of unwanted microwave energy.

MICROSORB MT-S is formulated with a silicone polymer for flexibility. Parts are easily cut with a sharp blade or die-cut into specific complex shapes. Its flexibility allows it to be bonded to irregular and contoured surfaces.

MICROSORB MT-S is ideal for applications requiring temperature cycling and environmental conditions as the elastomeric chemistry allows for expansion/contraction caused by temperature change.

APPLICATION SIZES

MICROSORB Technologies 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, and slitting services.

SPECIFICATIONS

Density, g/cm ³	4
Hardness, Shore A	75
Thermal Conductivity (BTU)(in)/(hr)(ft ²)(°F) (cal)(cm)/(sec)(cm ²)(°C)	6.0 0.0021
Water Absorption, % 24 Hours	< 0.1
Dielectric Strength, v/mil (kv)/mm)	100 (>394)
Volume Resistivity, ohm-cm	> 10 ¹⁰
Service Temperature, °F (°C)	320 (160)

TYPICAL ELECTRICAL PROPERTIES

MICROSORB MT-S Grade	Approx. Relative Impedance, Z/Z ₀	Attenuation. dB/cm (GHz)		
		1.5	3.0	8.6
-112	0.5	0.2	0.7	2.5
-114	0.5	0.8	1.9	9.5
-116	0.4	1.6	5.8	19.0
-117	0.4	2.9	11.0	46.0
-124	0.4	5.6	20.0	63.0

MICROSORB MT-S Grades are available in sheet 12" x 12". Standard thicknesses available are:

- 0.020"
- 0.030"
- 0.060"
- 0.125"
- 0.180"
- 0.250"
- 1.00"

- Microsorb offers custom thicknesses and dimensions. Please contact your **MICROSORB** Customer Service Department.

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