

## Epoxy Absorber

Leader Tech's Epoxy Absorber product series is a rigid magnetically loaded sheet stock providing magnetic attenuation of RF signals. Epoxy Absorbers can easily be machined into custom shapes and sizes, and can handle high power loading. Epoxy Absorbers attenuate energy at normal and high angles of incidence at frequencies from 1 GHz to 40 GHz, and can be optimized for frequencies within this spectrum.



### Electrical Performance

This performance plot illustrates the insertion loss performance of this material. Additional electrical test data may be available upon request.

<b>Test Frequency:</b>	10.0 GHz
<b>Attenuation:</b>	>82.0dB/cm at 10 GHz >15.0dB/cm at 3 GHz
<b>Relative Permeability:</b>	2.1
<b>Relative Permittivity:</b>	22.5 +/-5%
<b>Loss Factor:</b>	208 dB/inch
<b>Resistivity:</b>	>10E12 ohm-cm

### Method Of Application

The primary method of application for Epoxy Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. Leader Tech proudly uses 3M transfer tapes on it's Epoxy Absorbers. Contact Leader Tech technical representatives for a datasheet on the PSA.

Other liquid and paste adhesive may be recommended. Contact a Leader Tech technical representative for more information.

### Availability

**Standard Sheet Sizes:** 12" x 12" (305 x 305mm), other sizes are available upon request. **Format:** Sheets, Rods, Bars, or Machined

### Applications:

- Wave Guide Loads
- Machined Housings
- Resonant Cavity Attenuation
- EMI Reduction
- Rx/Tx Antenna Isolation
- Radar Cross Section Reduction

### Typical Properties:

Color: Dark Grey

Operating Temperature Range:  
0 to 350°F

Thermal Expansion:  
30 x 10E-6 per degree C

Outgassing:  
TML : 0.238%

CVCM : 0.008%

Tensile Strength: >7,500 psi

Water Absorption:  
<0.05% (20 days @ 25 deg. C)

Machinability: Excellent