

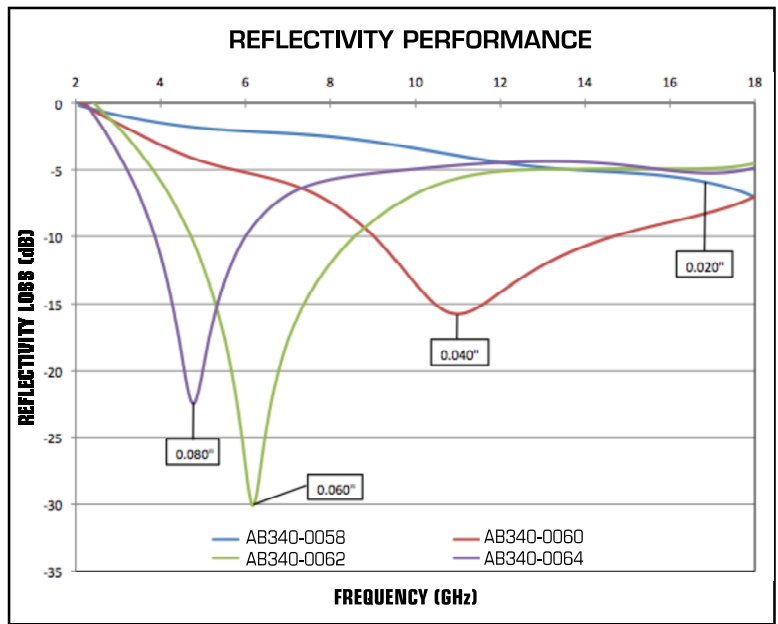
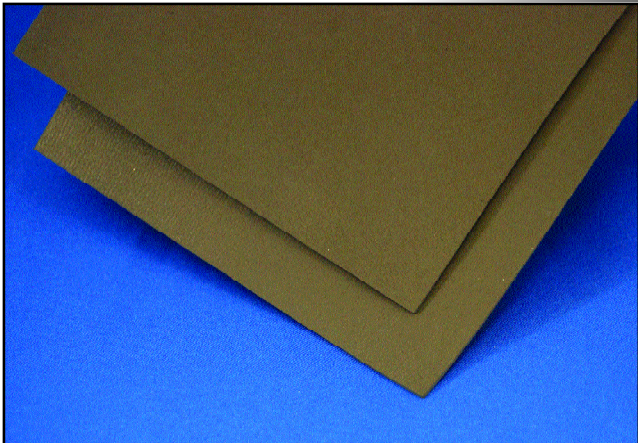


CAVITY RESONANCE ABSORBER

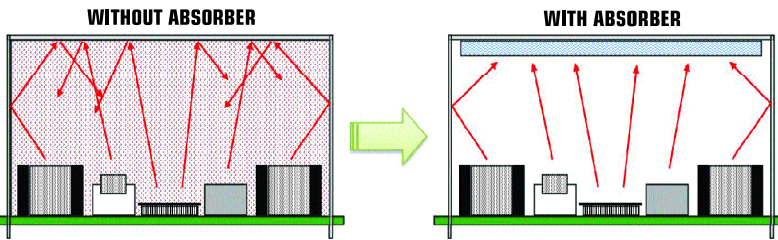
Western Rubber & Supply Inc. Cavity Resonance Absorber products are thin, magnetically loaded sheet stock, having high loss at microwave frequencies, while maintaining the desirable characteristics of elastomeric binders. Cavity Resonance Absorbers are designed to exhibit high loss and are intended to be applied to metal surfaces inside microwave cavities to reduce the Q of the cavity. Cavity Resonance Absorbers attenuate energy at normal and high angles of incidence at frequencies from 1 GHz to 20 GHz.

The standard elastomer for this product series is silicone. Other elastomer formulations are available which may be better suited for specific conditions.

The primary method of application for Cavity Resonance Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. Other liquid and paste adhesives may be recommended. Please contact a WRS technical representative for more information pertaining to your specific needs.



ELECTRICAL PERFORMANCE: The performance plot shown above illustrates the reflection loss performance of this material. Reflection loss is measured on a NRL arch, for more information on the NRL arch test set-up, please contact a WRS technical representative. Additional electrical test data may be available upon request.



APPLICATIONS

- Resonant Cavity Attenuation, EM Reduction, Rx/Tx Antenna Isolation, System Isolation, High Frequency Interference, Inside a shielding can, Specular Return (RCS)

FEATURES AND BENEFITS

- Tough material can survive outdoor exposure
- Very thin for compact locations
- Flexible elastomeric material will not crack
- Support broad frequency range
- RoHS Compliant
- Halogen Free

TYPICAL PROPERTIES

- Thickness Range: .01" to .180"
- Color: Dark Grey
- Elastomer: Silicone
- Operating Temperature: -60°F to 375°F
- Flame Rating: UL94-V0
- Hardness: Shore A 60-80

AVAILABILITY:

- Standard Sheet Sizes: 20" x 20" (564 x 564mm)
24" x 24" (769 x 769mm)
- Format: Sheets, Die Cut, Kiss Cut Pads