



**Product
Bulletin**

200-08

MICROSORB OCR

Reticulated, Broadband Absorber

GENERAL DESCRIPTION

MICROSORB OCR is a series of broadband microwave absorbers well suited for isolating adjacent elements such as parabolic dish or horn antennas. It can also be used as an inexpensive material for decoupling adjacent members of antenna arrays.

MICROSORB OCR consists of a single layer of absorber material. It is light weight and flexible and is capable of conforming itself to a wide variety of shapes and situations. **OCR** offers excellent microwave performance over a broad band of frequencies. (see performance graphs) Material performance is determined by the thickness of the absorber. As can be seen multiple resonances are achieved throughout the band.

MICROSORB OCR has an open cell structure which greatly aids its flexibility. The open pore structure enables it to be used outdoors without degradation in performance (when dry).

If one of the standard **MICROSORB OCR** types does not meet your electrical requirements exactly, the performance can be tuned to locate a performance peak precisely at your frequency of interest. Please call for details.

APPLICATION

Installation of **Microsorb OCR** is very simple. It can be secured to flat or gently curved wooden, metal, or other surface by means of an adhesive which may be either sprayed or brushed on both surfaces to be mated. The absorber may also be attached temporarily by impaling on small hooks or pins (nonmetallic for best electrical performance).

SPECIFICATIONS

Density, lb/ft ³	3.0
Porosity, pores per inch	5-15
Tensile strength, psi	8-12
Tear strength, lb/inch width	2.2
Ultimate elongation (%), Environmental Properties	275
Service Temperature, °F (°C)	250°F
Ozone adverse affects	No
Fungus Resistance, Evidence of fungus growth	No

The standard surface color of **MICROSORB OCR** is black. Other surface colors are available upon request.

<u>Microsorb Grade</u>	<u>Thickness (inches)</u>	<u>Weight (lbs/ ft²)</u>
OCR-0.50	0.50	0.15
OCR-0.75	0.75	0.20
OCR-1.00	1.00	0.24
OCR-2.00	2.00	0.34

SIZES

MICROSORB OCR standard size is 2' by 2' but custom sizes are available upon request.

- Microsorb offers custom thicknesses. Please contact your **MICROSORB** Customer Service Department to discuss your specific requirements.

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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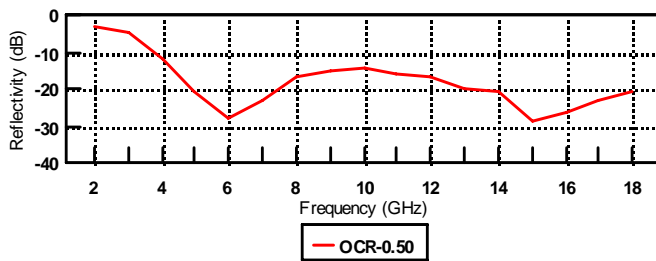


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MICROSORB OCR ELECTRICAL PROPERTIES (TYPICAL)

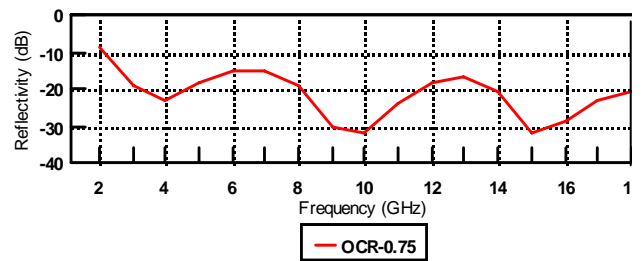
OCR-0.50 REFLECTIVITY

Measured Performance



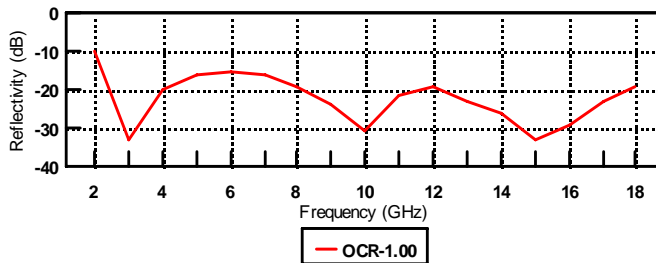
OCR-0.75 REFLECTIVITY

Measured Performance



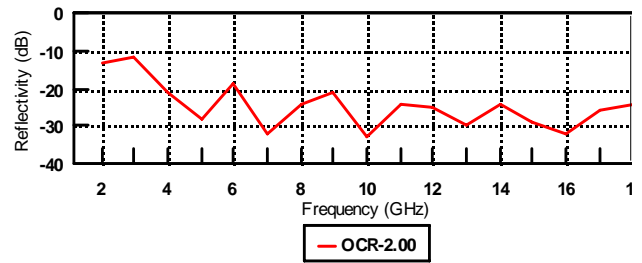
OCR-1.00 REFLECTIVITY

Measured Performance



OCR-2.00 REFLECTIVITY

Measured Performance



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