

## ECCOSORB® HR

Lightweight Flat-Sheet Broadband Microwave Absorbers

### Material Characteristics

- Lightweight, flexible, flat-sheet broadband absorber
- Reticulated (open-cell) polyurethane foam sheet with a controlled conductivity gradient carbon loading system
- Electrically conductive
- Frequency range from 5 - 70 GHz
- Back surface is marked: HR-xx BACK
- Not weatherproof

### Applications

- Antenna shrouds for low side-lobe reflector antennas
- Isolation of adjacent antennas and array elements
- Various camouflaging and interference suppression applications
- Military radar absorbing blankets providing stealth
- ECCOSORB® HR has been used for moderate performance anechoic chambers and less sensitive regions of high performance chambers

### Availability

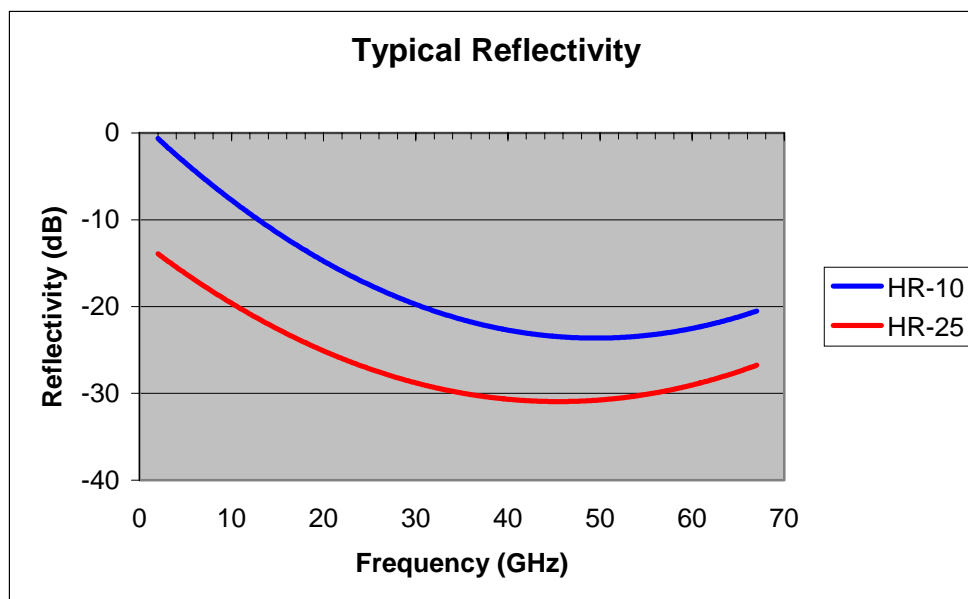
- Standard sheets are 24" x 24" (61 cm x 61 cm)
- Two standard thicknesses: ECCOSORB® HR-10 (10 mm) and ECCOSORB® HR-25 (25mm)
- ECCOSORB® HR is available in other sizes and customer specified configurations upon request

### Instructions for Use

- The front surface should face the incident electromagnetic energy for proper performance. To decipher from front and back, the back side of each panel is marked (HR-xx BACK)
- ECCOSORB® HR should be bonded to a metal surface for optimal performance. If a metal surface is not available, it can be supplied with an aluminum foil backing (ML) designated as HR-XX/ML
- ECCOSORB® HR can be bonded with the preferred adhesive ECCOSTOCK® 13-111-NF

### Typical Properties

	HR-10	HR-25
Frequency Range (GHz)	12-70	5-27
Max. Service Temperature, °F (°C)	194 (90)	194 (90)
Density lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	2.8 (45)	2.8 (45)
Weight per 24" x 24" sheet, lbs.	0.38	0.93
Tensile Strength (kPa)	70	70
Elongation (%)	170	170



EMERSON & CUMING MICROWAVE PRODUCTS, INC., 28 York Avenue, Randolph, MA 02368 / Telephone (781) 961-9600. Use of Information and Material: Values shown are based on testing of laboratory test specimens and represent data that falls within normal range of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material for any purpose contemplated by the user and the manner of such use is the responsibility of the user. The user should determine that the material meets the needs of the user's product and use. We hope that the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES, which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use, which would infringe any patent or copyright. Emerson & Cuming Microwave Products Inc.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Performance Materials:](#)

[301060005](#) [301058301](#)