

C-RAM™ FLX-800

Flexible magnetic sheet absorber for 800-900 MHz

Description

C-RAM™ FLX-800 is a magnetically lossy silicone rubber sheet material. When backed with an electrically conductive surface, it will act as a reflectivity reduction layer, resonant at around 850 MHz.

Because of its large ferromagnetic loss in the UHF region, it can be used to line one or more walls of a cavity to attenuate modal resonances. This is useful for enclosed devices, as well as for small chambers used to test device emissions.

For applications having limited clearance, or having weight restrictions, C-RAM™ FDSS and FDSU should be considered. These are flexible sheet materials made of the same silicone or urethane rubber, having the same magnetically lossy loading. These materials are available in thicknesses of 0.8 -6.4 mm (.030 - .250 in.), and provide some resonance damping ability traded off against reduced weight.

For applications not exceeding temperatures of 120 °C (250 °F), C-RAM™ FLX-U-800, an equivalent urethane rubber material, can be used.

Availability

Standard product size is a flat sheet, 300 x 300 mm (12 x 12 in.). Material can also be supplied as custom cut parts per customer specifications.

C-RAM™ FLX-800 can also be supplied with a conductive metal backing and/or with a peel and stick pressure sensitive adhesive.

Method of application

C-RAM™ FLX-800 can readily be cut to shape with a razor knife or a die.

C-RAM™ FLX-800 can be bonded to many substrates using an RTV silicone adhesive or can be supplied with a peel-and-stick pressure sensitive adhesive.

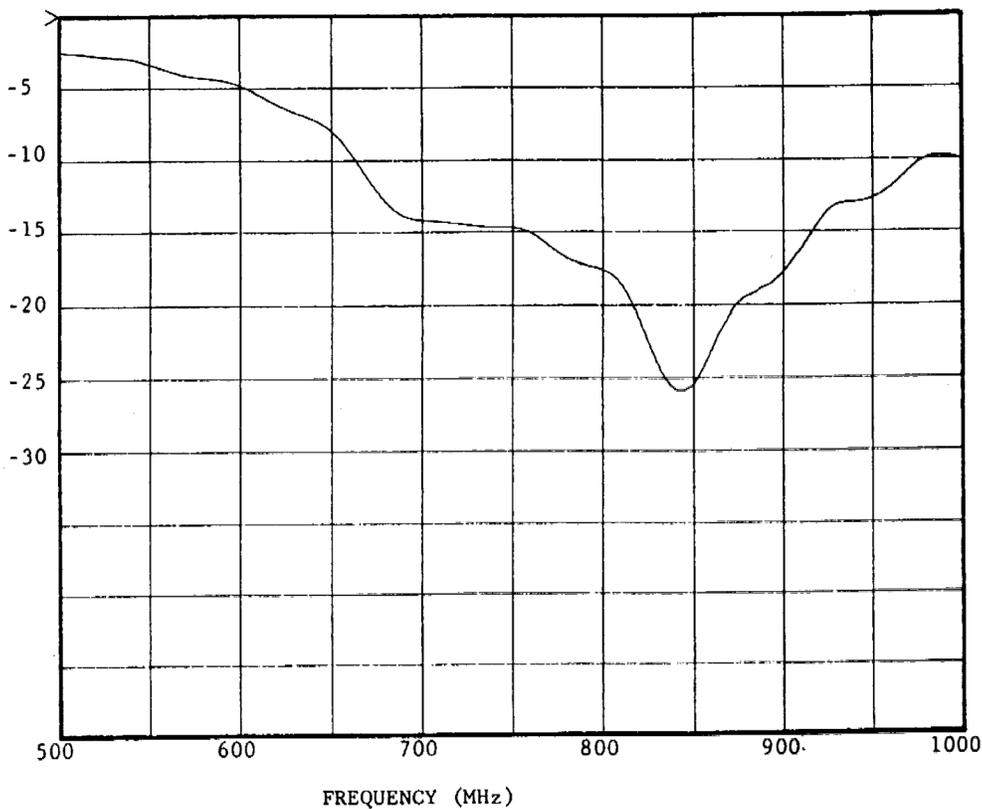
Typical Properties

Frequency range:	1 – 35 GHz
Color:	Grey
Thickness:	8.1 mm (0.32 in.)
Weight:	24.9 kg/m ² (5.1 lb/ft ²)
Service temperature:	-60 to +163 °C (-80 to +325 °F)
Reflectivity performance:	<-20 dB at 850 MHz and <-15 dB in 800-900 MHz band
Hardness, shore D:	30

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Typical reflectivity curve of C-RAM™ FLX-800 compared to flat metal plate



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Cuming Microwave Corporation

Engineered Materials
264 Bodwell Street
Avon, MA 02322
Telephone +1 (508) 521-6700
Fax +1 (508) 584-2309
www.cumingmicrowave.com
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