

C-RAM™ MMW-1 & MMW-2

High frequency millimeter wave broadband foam absorber

Description

C-RAM™ MMW is a line of high frequency RF and microwave absorber material designed for applications up to 300 GHz. Available in two different grades, MMW-1 and MMW-2. Both grades are fire retardant.

MMW-1: Flexible open cell carbon loaded foam.

Applications

Lining of antenna shrouds to minimize side and back lobes. Free space reflectivity reduction.

Typical properties

Color	Black
Density	0.65lb/ft ³
Service temperature, °F (°C)	-40 to +250 (-40 to +121)

Electrical performance

<u>Thickness</u>	<u>Frequency</u>	<u>Reflectivity</u>
0.50"	26 to 110 GHz	>20dB
0.25"	70 to 110 GHz	>20dB

MMW-2: Flexible, lossy, carbon loaded foam.

Applications

Isolation by insertion loss. Eliminate crosstalk between adjacent antennas. shield or isolate equipment.

Typical properties

Color	Black
Density	4 to 8 lb/ft ³
Service temperature, °F (°C)	-40 to +250 (-40 to +121)

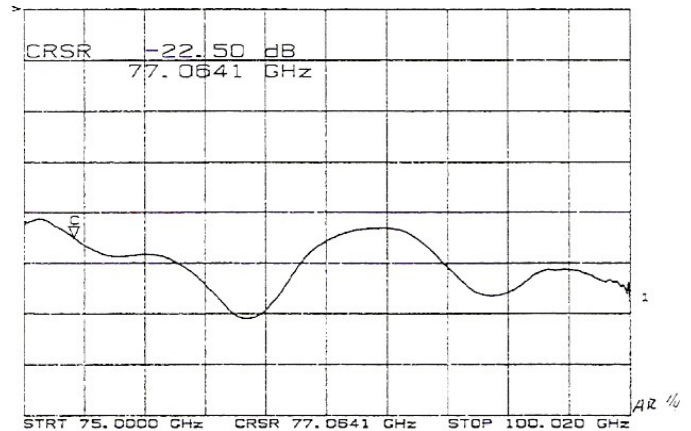
Electrical performance

<u>Thickness</u>	<u>Frequency</u>	<u>Reflectivity</u>
0.125"	70 - 110 GHz	>17 dB
0.250"	40 - 110 GHz	>20 dB
0.50"	26 - 110 GHz	>20 dB

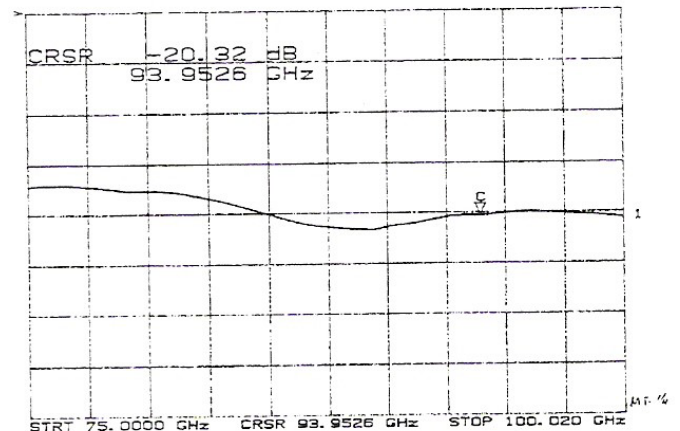
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This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data.

Typical reflectivity



Typical performance C-RAM™ MMW-1, 0.25" thick



Typical performance C-RAM™ MMW-2, 0.25" thick

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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