

CUMING MICROWAVE

Technical Bulletin 320-4

C-RAM LPJ FLEXIBLE JAUMANN ABSORBERS

RoHS
Compliant

C-RAM LPJ is a series of lightweight, flexible, weatherproof radar absorbers which can be used indoors, outdoors, or wherever the material may be in contact with water, oil, or other liquids. C-RAM LPJ is made of alternating layers of closed-cell polyethylene foam and resistive layers. It is based on the Jaumann principle of operation. C-RAM LPJ is designed to provide typically 18 dB of reflectivity reduction in a frequency range dependant on grade.

APPLICATIONS

The radar absorber is useful for reducing reflections from flat surfaces, columns, and structures such as bridges. Its easy-to-clean surfaces and non-dusting behavior make it suitable for cleanroom applications.

The standard size of C-RAM LPJ is 24 x 24 in. Standard thicknesses are noted in the chart below. Other thicknesses, shapes, and sizes are available on a custom order basis. It can be easily cut to special size or shape, and the edges do not require resealing. Sheets are bonded together or to a reflecting surface with a contact adhesive.

TYPICAL PROPERTIES

Color: White
Size: 24" x 24" standard
Service Temp.: -40 to +180 °F (LPJ)
-40 to +300 °F (RCJ)

<u>Grade</u>	<u>Weight/ft²</u>	<u>Thickness</u>
LPJ-373	120 g	0.45 in.
LPJ-374	210 g	0.95 in.
LPJ-375	340 g	1.30 in.



METHOD OF APPLICATION

For best performance, C-RAM LPJ must be mounted with its back face in close contact with a metallic reflecting surface. The back faces of C-RAM LPJ are identified by markings designating its type and grade; the front face is blank and colored white. A special grade, designated C-RAM LPJ/M is available with an integral metal foil backing.

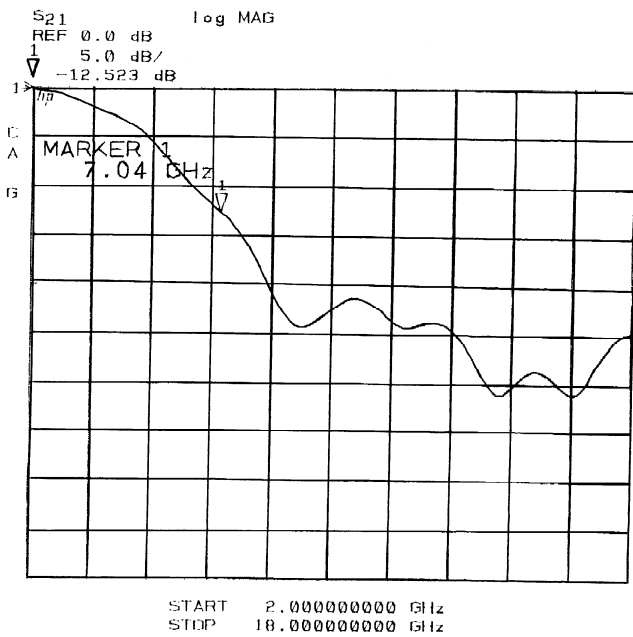
The material has some flexibility, but because of its structure, it will not conform to tight radius curves. It can be custom manufactured on mandrels to take on complex shapes.

Document Control No. N-07-000-50039-G
11/03/11 Page 1 of 2

ELECTRICAL PERFORMANCE

<u>Grade</u>	<u>Frequency</u>
LPJ -373	8-18 GHz
LPJ -374	6-12 GHz
LPJ -375	2.5-8 GHz

Typical Reflectivity of C-RAM LPJ-373:



The information in this technical bulletin, although believed to be accurate, is not to be taken as a warranty for which Cuming Microwave assumes legal responsibility, nor as permission to practice any patented invention without license. It is offered for verification by the customer, who must make the final judgment of suitability for any application.