

### C-RAM™ LPJ

#### Flexible jaumann RF absorber

##### Description

C-RAM™ LPJ is a series of lightweight, flexible, weatherproof radar absorbing material 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 reflection reduction in a frequency range dependant on grade.

##### Availability

Standard sheets are 24" x 24" (610 mm x 610 mm). C-RAM™ LPJ is available in three standard grades depending upon the lowest desired frequency of operation. C-RAM™ LPJ can be supplied in other sizes or per customer specified configurations upon request.

##### Applications

Reduce reflections from any flat surfaces, columns, and structures in free space.

Commonly used in marine applications.

It's easy-to-clean surfaces and non-dusting behavior makes it suitable for cleanroom applications.

##### Typical properties

Frequency range:	1 – 35 GHz
Frequency range:	2.5 -18 GHz
Color:	White
Service temp.:	-40 to +180 °F
	-40 to + 83 °C

<u>Grade</u>	<u>Weight/ft<sup>2</sup></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.

##### Instructions for use

For best performance, C-RAM™ LPJ must be mounted with its back face in close contact with a metallic surface.

The back side of C-RAM™ LPJ is identified by markings designating its grade.

C-RAM™ LPJ can be supplied with a metal backing (-ML), LPJ-XXX-ML.

The material is flexible, 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.

C-RAM™ LPJ can be bonded to many surfaces or to itself using a one part neoprene contact adhesive.

C-RAM™ LPJ can be easily cut with a sharp knife, band saw or a waterjet machine.

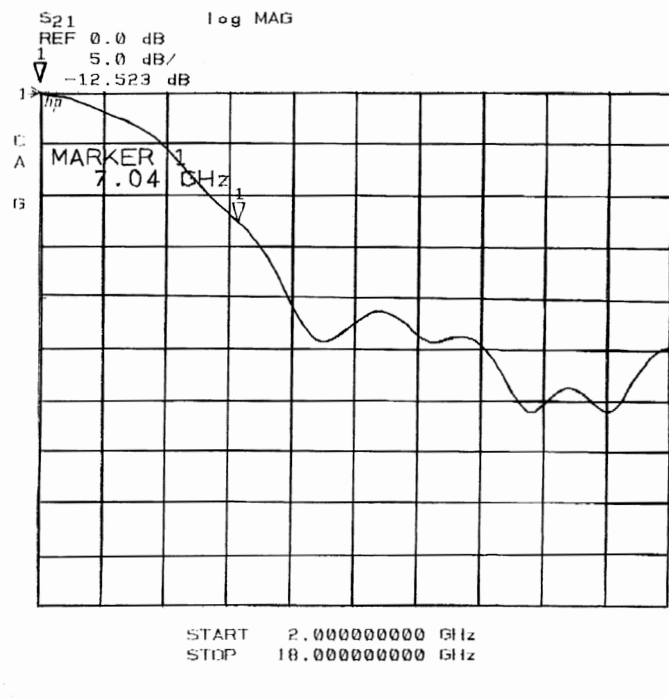
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### Electrical performance

Grade	Frequency
LPJ -373	8-18 GHz
LPJ -374	6-12 GHz
LPJ -375	2.5-8 GHz

### Typical Reflectivity of C-RAM™ LPJ-373:



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