

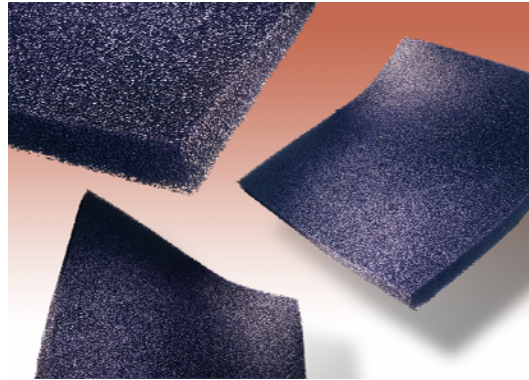
# CUMING MICROWAVE

Technical Bulletin 320-9A

## C-RAM PIM 645 700 MHz-3 GHz ISOLATION FOAM

RoHS  
Compliant

C-RAM PIM 645 is a line of outdoor isolation foam sheet material, comprised of urethane foam and a lossy carbon loading. C-RAM PIM 645 absorbs RF microwave energy across 700 MHz through 3 GHz. frequencies. C-RAM PIM 645 has proven to be ideal for PIM reduction and isolation between antennas; it can also be used to cover fences to de-couple adjacent antennas, and shield or isolate equipment. The open-cell structure permits airflow freely through the absorber. When used outdoors, rain will also freely drain from the product.



### TYPICAL PROPERTIES

Porosity, pores per inch:	4-20
Tensile strength, psi:	8-12
Tear strength, lb/inch width:	2.2
Density, lb/ft <sup>3</sup> :	3.0
Ultimate elongation (%) max:	275

### Environmental Properties

Operating temp., max:	200°F
Ozone adverse affects:	No
Fungus Resistance, Evidence of fungus growth:	No

### TYPICAL INSERTION LOSS

(dB down from reference)

#### C-645

Thk.	Performance	Freq. Range
0.5in.	-12 dB	700 MHz-3GHz
1.0in.	-18 dB	700 MHz-3GHz

### METHOD OF APPLICATION

Typically C-RAM PIM 645 can be adhered in place using neoprene contact adhesives or it can be mechanically fastened using low dielectric plastic fasteners. C-RAM PIM 645 is easily cut by bandsaw, utility knife, or shears. It is easily applied to curves or cut to fit into various sizes.

### AVAILABILITY

C-RAM PIM 645 is available in standard sizes of 24x24in (610x610mm) and 24x48in (610x1220mm) Other sizes are available. Cuming Microwave can also supply parts cut to drawings. Consult the factory for other sizes.

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 or recommendation 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.