

C-RAM™ PIM 645

700 MHz – 7 GHz isolation foam

Description

C-RAM™ PIM 645 is a line of outdoor and indoor isolation foam sheet material, comprised of urethane foam and a lossy carbon loading.

C-RAM™ PIM 645 has proven to be ideal for cellular and RF PIM reduction and isolation between antennas.

The open-cell structure permits airflow freely through the absorber. When used outdoors, rain will also freely drain from the product.

A fire-retardant version per UL94-HBF is available for indoor applications only, denoted C-RAM™ PIM 465-FR.

Availability

Standard sheet sizes are 24" x 24" (610 x 610 mm) and 24"x48" (610x1220 mm).

C-RAM™ PIM 645 can be supplied in other sizes or per customer specified configurations.

Standard thickness are 0.5", 1" and 2" thick.

Applications

PIM mitigation in cell towers, rooftop, cell sites and indoor systems as well.

PIM-645 can be used to de-couple adjacent antennas, and shield or isolate equipment.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

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

Instructions for use

C-RAM™ PIM 645 can be easily cut with a sharp knife, band saw, utility knife, or shears. It is easily applied to curves or cut to fit into various sizes.

C-RAM™ PIM 645 can be securely applied to a substrate using a neoprene contact adhesive or a low dielectric plastic fasteners.

Typical properties

Frequency range	0.7 to 7 GHz
Color	Black
Porosity, pores per inch	4-20
Tensile strength, psi	8-12
Tear strength, lb/inch width	2.2
Density, lb/ft ³	3.0
Ultimate elongation (%) max	275
Service temperature, °F (°C)	-40 to +200 (-40 to +93)
Ozone adverse affects	No
Fungus resistance, evidence of fungus growth	No

Typical insertion loss

(dB down from reference)

Thk.	Performance	Freq. Range
0.5in.	-12 dB	700 MHz-3GHz
1.0in.	-25 dB	700 MHz-3GHz
1.5in.	-32 dB	700 MHz-3GHz
2.0in.	-40 dB	700 MHz-3GHz

Typical PIM reduction

Peak PIM reduction of -95 dBm.

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