

C-RAM™ GDx

High loss silicone rubber sheet absorber

Description

C-RAM™ GDx is a thin, flexible, magnetically filled silicone rubber sheet stock.

C-RAM™ GDx is electrically non-conductive and it has a high dielectric strength.

Availability

Standard sheet size is 12" x 12" (305 mm x 305 mm).
Standard thickness is 0.030" (0.76 mm).

C-RAM™ GDx can be supplied in other sizes, thickness or per customer specified configurations upon request.

C-RAM™ GDx can also be supplied with a peel-and-stick pressure sensitive adhesive backing, order as GDx/PPGA.

As a standard, The C-RAM™ GDx base material is silicone, but it can also be supplied in a urethane base version.

Applications

C-RAM™ GDx can be used to lower the Q of cavities, dampening unwanted resonances and act as a transmission line attenuator.

C-RAM™ GDx can be applied to metal surfaces to attenuate RF surface currents and also can be used to modify antenna patterns.

Method of application

C-RAM™ GDx can be cut with a sharp knife, die cut, waterjet cut, Kiss- cut. It is flexible and can be bonded to contoured surfaces.

C-RAM™ GDx can be applied to a substrate by using a silicone RTV adhesive. For best results, the material should be scuffed with sandpaper, wiped with alcohol to remove dust and grease, and have a silicone primer applied to the substrate.

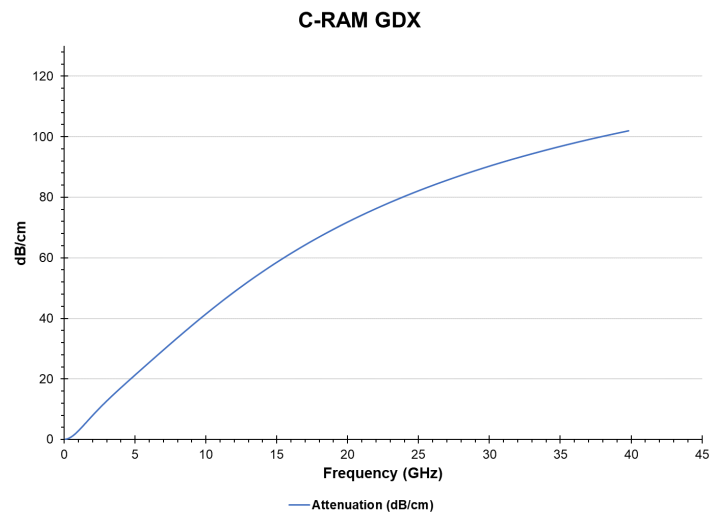
C-RAM™ GDx can also be supplied with a pressure sensitive adhesive backing (/PPGA).

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.

Typical properties

Frequency range	≥ 10 GHz
Color	Grey
Flammability	Non-flammable
Service temperature	-60 to +150 °C (-80 to +300 °F)
Outgassing	(TML%) (CVCm%) (0.27) (0.06)
Hardness, shore A	80
Thickness and weight	
0.75 mm (.030")	--- 2.3 kg/m ² (0.47 lb/ft ²)
1.52 mm (.060")	--- 4.6 kg/m ² (0.95 lb/ft ²)
3.18 mm (.125")	--- 9.6 kg/m ² (1.98 lb/ft ²)
Thermal conductivity	0.002 cal-cm/sec-cm ² -°C
Volume resistivity	>1011 ohm-cm
Dielectric strength	10 kv/mm (250 v/mil)



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