Robzorb® GDS

High-Loss Dispensable Microwave Absorber

HIGH-LOSS ELASTOMERIC ABSORBER



The Robzorb™ GDS grade is a UL rated, flexible, high-loss, magnetically loaded, two part dispensable silicone. It is designed for optimum performances for the frequency range from 18 GHz to 35 GHz for suppression of cavity resonance.

The product can be processed through commercially available dispensing equipment for low viscosity materials. The product has self-levelling characteristics, becoming a solid elastomer after room or accelerated heat temperature curing.

FEATURES AND BENEFITS

- High power performance
- High magnetic loss
- Dispensable
- Self Levelling
- UL94 V0

MARKETS

- Telecom
- Security and Defense
- Automotive
- Industrial Electronics

SPECIFICATIONS

TYPICAL PROPERTIES	ROBZORB™ GDS
Frequency Range (GHz)	18 to 35
Operating Temperature °C (°F)	-50 (-58) – 125 (257)
Density cured (g/cc)	3.75
Flammability rating	UL94 V-0
Hardness (Shore 000)	80
Outgassing TML(%)	0.27
CVCM(%)	0.06
Ratio	1:1
Curing Schedule	24 hrs @RT, or > = 1hr @85C
Shelf Life	9 months

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

APPLICATIONS

- When dispensed within a cavity, the Robzorb™ GDS material has proven to be very effective at dampening resonance due to high permittivity, permeability, as well as high loss values, which in turn reduces the overall VSWR.
- Upon design, it can be applied the inner or outer surfaces of waveguides for isolation, attenuation or modification of radiating patterns.
- When applied to side or even rear surfaces of certain objects it will cause a significant reduction in “head on” reflectivity or backscattering.
- It can be used for the suppression of creeping waves and reduction of cavity resonances in microwave modules.
- It is also useful in reducing RF coupling of antennas and microwave component

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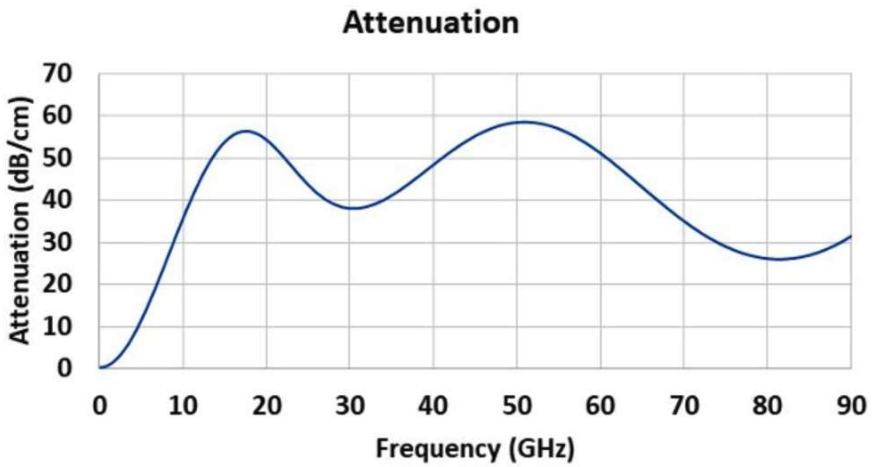
AVAILABILITY

- Sample kits available in a 50cc format consisting of small bottles to fill a 2 components syringe (included static mixer and dispensing gun).
- Standard packaging are pails kit, from size 10kg to 30kg. Other packaging available on request.

INSTRUCTIONS FOR USE

- The Robzorb™ GDS grade is designed to function directly on a metallic surface, particularly within a cavity.
- The metal surface needs to be free of dirt, oil and impurities to ensure good adhesion. Best results will be obtained following thorough cleaning of the metallic surface with a degreasing solvent.
- The Robzorb™ GDS silicone has self-levelling properties, but large areas may require dispensing of a near net shape
- For further detailed instructions, please refer to the application note



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