Technical Data Sheet
LS Series
Overview

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LOSSY FLEXIBLE FOAM

ARC Technologies, Inc offers a wide variety of RF absorbers. The LS product is a flexible, low density, high loss, carbon impregnated open cell foam. It is available in a range of thicknesses with various carbon loading. The carbon loading allows it to be effective over a broad range of frequencies, typically providing 5 dB loss or greater. The product is halogen free, RoHS and REACH compliant.

Product Overview

The LS series is an open cell foam with carbon loading. It is available in sheet form, has low density, is light weight and can be custom carbon loaded to meet high or low loss requirements. It is effective mainly for far field requirements. This product is typically used in a multi-layer form taking advantage of the layering of various carbon loadings. This RF absorber is ideal for suppression of electromagnetic energy. Placement in a cavity will reduce multiple reflections, which result in improved performance. Product provides broadband absorption from 500MHz to 40GHz.

Why LS is effective

The LS material is effective due to its open cell foam construction with its ability to retain various carbon loadings to absorb the EMI. The open cell foam can be for outdoor applications. These RF absorbers can be weather sealed for outdoor protection.

When to Use

- Crosstalk reduction
- Antenna shrouding
- Shadowing parts for RCS Measurements
- Shadowing components of anechoic chambers
- Typically used in multi-layer format
- Broad band absorption.

Resistant Elastomer coatings can be added for :

- Jet fuel
- Hydrolic fuel
- Gasoline
- Water

Availability

Standard sheets are 610mm x 610mm.

General standard thicknesses are 3.2mm, 6.4mm, 9.5mm, 12.7mm, 19.1mm and 25.4mm. Many more thicknesses available on request.