



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LOSSY, FLEXIBLE FOAM ABSORBER

Eccosorb LS is the most widely known, used, and recommended polyurethane foam absorber. Eccosorb LS obtains its microwave properties via impregnation with a carbon black dispersion and is therefore electrically conductive. It is a very low cost solution for many applications over the thinner, more expensive rubber absorbers.

FEATURES AND BENEFITS

- Flexible, foam material
- High loss, low density
- Very low cost

MARKETS

- Commercial Telecom
- Test Boxes
- Security and Defense

SPECIFICATIONS

| TYPICAL PROPERTIES | ECCOSORB LS |
|----------------------------------|-------------|
| Max. Service Temperature °C (°F) | 90 (194) |
| Frequency Range | ≥ 1 GHz |

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

| | Attenuation (dB/cm) | | Relative Impedance (Z /Z ₀) | |
|-------|------------------------|--------|---|--------|
| | 3 GHz | 10 GHz | 3 GHz | 10 GHz |
| LS-14 | 1.0 | 1.7 | 0.83 | 0.89 |
| LS-16 | 1.5 | 2.3 | 0.78 | 0.87 |
| LS-18 | 3.2 | 4.7 | 0.69 | 0.82 |
| LS-20 | 4.2 | 7.0 | 0.61 | 0.78 |
| LS-22 | 7.4 | 14.9 | 0.55 | 0.74 |
| LS-24 | 11 | 24 | 0.25 | 0.44 |
| LS-26 | 16 | 34 | 0.18 | 0.31 |
| LS-28 | 20 | 40 | 0.16 | 0.27 |
| LS-30 | 24 | 46 | 0.13 | 0.22 |

APPLICATIONS

- Eccosorb LS is used to lower cavity Q's in RF amplifiers, oscillators, cabinets containing microwave devices, computer housings, LNB's and isolation of antennas by insertion loss.
- Eccosorb LS is also used to reduce surface currents on radiating elements and outer ground-plane type surfaces.
- Reflectivity of an object (metal or otherwise) can be reduced somewhat by applying one or more layers of Eccosorb LS to its surface.

AVAILABILITY

- Standard sheets are 610mm x 610mm (24"x24").
- Standard thicknesses are 3.2 mm (1/8"), 6.4 mm (1/4"), 9.5 mm (3/8"), 12.7 mm (1/2"), 19.1 mm (3/4").
- All Eccosorb LS types can be delivered in special sizes or customer specified configurations upon request. This includes die-cut and kiss cut parts to reduce installation labor by allowing quick assembly.
- Usually Eccosorb LS is supplied with a pressure sensitive adhesive.
- Upon special request, Eccosorb LS can be supplied with an anti-dust coating to prevent carbon fallout.
- It can also be supplied, upon request, with a coating to prevent moisture uptake in high humidity to moderately wet environments.

INSTRUCTIONS FOR USE

- For optimal performance, Eccosorb LS should be bonded to a metallic surface.
- To obtain a strong bond, the surface should be thoroughly cleaned with a degreasing solvent.
- It can be securely bonded to itself or to other materials such as metal, wood and common plastic composites. Our specific Eccostock® foam adhesive is recommended or the self-adhesive version can be used.
- The material can be easily cut with a sharp knife, scissors or die.

