

High-loss silicon rubber sheet

ECCOSORB GDS is a flexible, high-loss silicone rubber sheet, standard size of 12in x 12in (30.5cm x 30.5cm) in area, 0.030in (0.076 cm) thickness, which is useful in a variety of microwave applications. When bonded to a metal surface, it will effectively prevent the flow of microwave currents on that surface. Thus, it can be applied to antenna elements, microwave dishes, the inner or outer surfaces of waveguides for isolation, attenuation or modification of radiation patterns. It will greatly reduce the reflectivity of metal objects or structures, if reflectivity in the first place is caused by surface current flow. Thus, it can be applied to side or even rear surfaces of certain objects and will cause a significant reduction in “head on” reflectivity or back scattering.



ECCOSORB® GDS

ECCOSORB GDS can be draped over complex objects to modify reflectivity characteristics. It can be used as an effective gasket in special microwave devices.

It can be cut readily. It provides a microwave-energy and hermetic seal.

ECCOSORB GDS is not electrically conductive.

ECCOSORB GDS is not intended for use as an absorber to reduce specular reflection of metal objects. When use in a specular manner, however, it will reduce metal plate reflectivity by a few dB.

Being made from silicone rubber, ECCOSORB GDS can be subjected to outdoor exposure with no adverse effects. It is impervious to moisture. It can be used continuously at temperatures to 350° F (177°C) and even higher for short periods. It can be cut and fitted to compound curves. For adhesion, use silicon adhesive. If primers are required, please use them together.

ECCOSORB GDS is available larger pieces than standard sheet can be supplied on special order. Large blankets can be made up by bonding techniques. Weight is approximately 0.5 lbs/sq.ft. (2.4 k/m²).

This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility nor as permission or recommendation to practice any patented invention without license. It is offered for consideration, investigation, and verification.