



DUAL-BAND FLEXIBLE RUBBER SHEET ABSORBER

Eccosorb SLJ is a flexible nitrile rubber-based flat absorber and is designed to have minimum reflection at 2 frequency bands i.e. X- and Ku bands. Between these 2 resonant frequencies, reflectivity remains typically below -10dB. The nitrile matrix is a very durable material. It has good outdoor weathering characteristics, good resistance to moisture and hydraulic fluids and has proven excellent performance in naval applications. Water and salt water immersion tests showed after 1 month immersion a weight increase of only 0.5 - 0.7 %. No influence on reflectivity was noticed.

FEATURES AND BENEFITS

- Dual-band
- Good weather resistance

MARKETS

- Commercial Telecom
- Security and Defense

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB SLJ
Temperature Range °C (°F)	-60 to 135 (-76 to 275)
Surface weight (kg/m ²)	8.0
Tensile strength (MPa)	2
Elongation (%)	580
Tear strength (N/cm)	190
Water absorption (1 month) (%)	<1
Salt water absorption (1 month) (%)	<1
MIL-STD-810D & MIL-A-17161D:	
-Vibration test	Passes
-Temperature-altitude-humidity test	Passes
-Salt fog test	Passes

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

APPLICATIONS

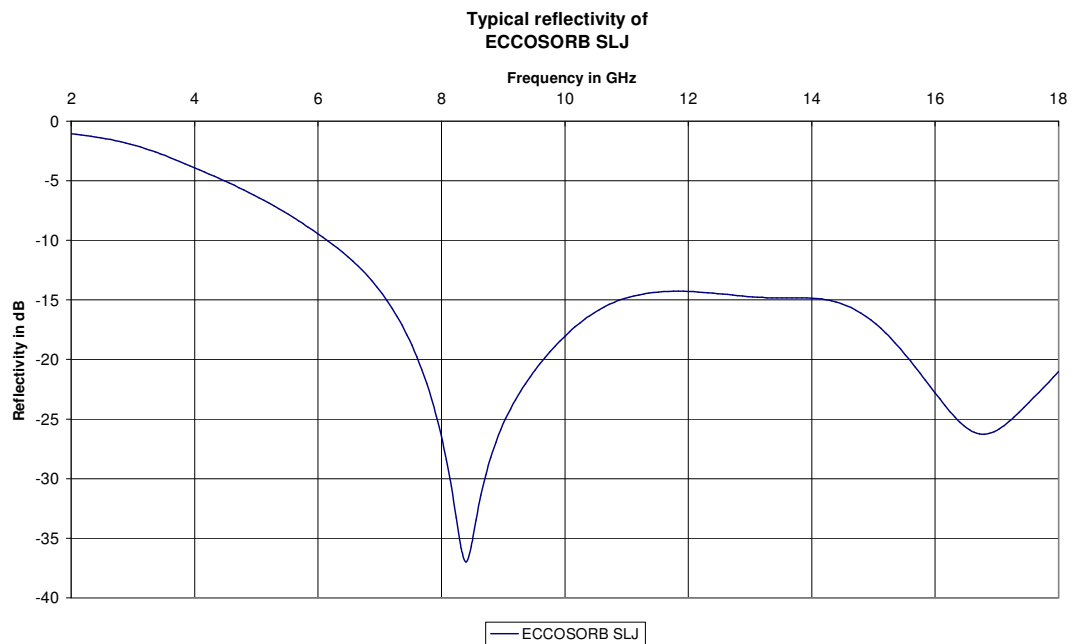
- Eccosorb SLJ is suited for applications requiring reflectivity reduction at several frequencies in harsh environments, particularly on objects with contoured shapes.
- Typically used on masts of ships, wall's, etc. to reduce reflections and echoes to nearby antennas or attached to vehicles to reduce overall radar signature.

AVAILABILITY

- Eccosorb SLJ is available as flat rubber sheets of 600 x 600 x 6.7 mm.

INSTRUCTIONS FOR USE

- The design of SLJ requires that its back surface is in intimate contact with a conductive surface.
- If this is not the case, one must first bond a conductive layer, such as aluminum foil, to the surface of the substrate or the back surface of the absorber.
- To obtain a strong bond of the absorber to the object, the metallic surface should first be thoroughly cleaned with a degreasing solvent.
- Bonding can be done with a suitable adhesive for nitrile rubber such as acrylic based adhesives.



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