

## FLEXIBLER, DUAL BAND, PLATTEN - ABSORBER



Eccosorb SLJ ist ein flexibler, auf Nitrilkautschuk basierender flacher Absorber und ist so konzipiert, dass er bei zwei Frequenzbändern, d. H. X- und Ku-Bändern, eine minimale Reflexion aufweist. Zwischen diesen beiden Resonanzfrequenzen bleibt das Reflexionsvermögen typischerweise unter -10 dB. Die Nitrilmatrix ist ein sehr haltbares Material. Es hat gute Bewitterungseigenschaften im Freien, eine gute Beständigkeit gegen Feuchtigkeit und Hydraulikflüssigkeiten und hat eine ausgezeichnete Leistung in Marineanwendungen bewiesen. Wasser- und Salzwassereintauchtests zeigten nach 1 Monat Eintauchen eine Gewichtszunahme von nur 0,5 - 0,7%. Ein Einfluss auf die Reflektivität wurde nicht festgestellt.

### EIGENSCHAFTEN UND VORTEILE

- Dual-band
- Gute Witterungsbeständigkeit

### MÄRKTE

- Kommerzielle Telekommunikationsanwendungen
- Sicherheit und Verteidigung

### SPECIFICATIONS

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

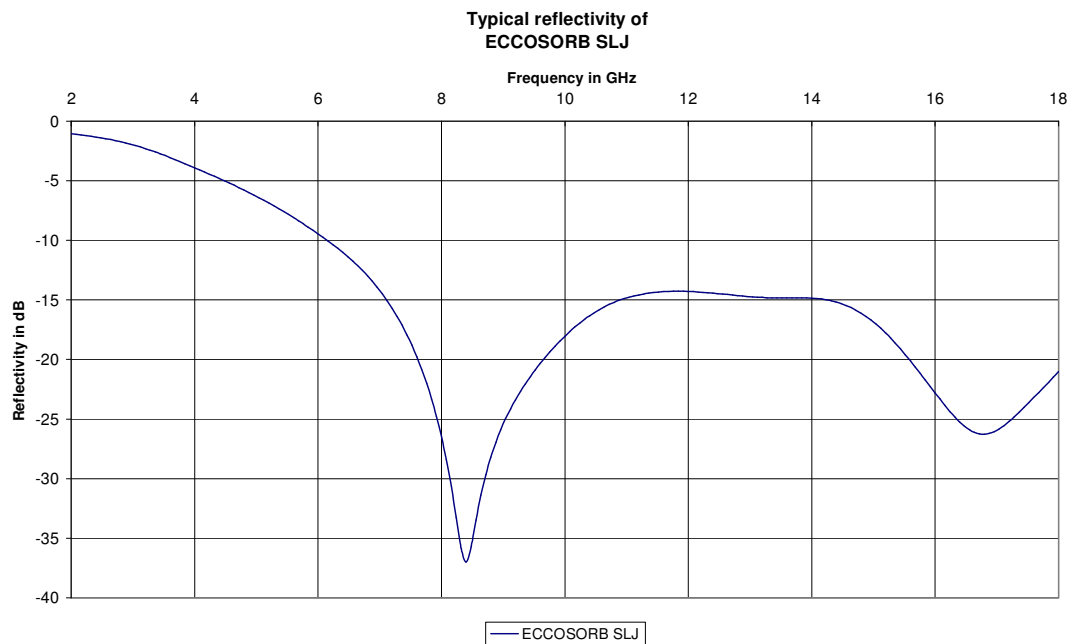
- Eccosorb SLJ is suited for applications requiring reflectivity reduction at several frequencies in harsh environments, particularly on objects with contoured shapes.
- Typically used on masts of ships, wall's, etc. to reduce reflections and echoes to nearby antennas or attached to vehicles to reduce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