



THIN BROADBAND MILLIMETER WAVE ABSORBER

Eccosorb MMI-U is a flexible absorber based on dielectric loss fillers. Due to the chemical nature of the dielectric pigmentation system, no oxidation is possible. As such, the product resists outdoor conditions very well. The polyurethane matrix ensures effective mechanical and bonding properties.

FEATURES AND BENEFITS

- Polyurethane
- High frequency applications
- Excellent outdoor exposure

MARKETS

- Automotive
- Commercial Telecom
- Medical
- Industrial

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB MMI-U
Frequency Range	≥ 6 GHz
Max Service Temperature °C(°F)	120 (248)
Water absorption (52°C/24h)	Impervious to water
Weight	2.2 kg/m ²

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

APPLICATIONS

- Eccosorb MMI-U is used to line cavities in which antennas operate. The product is effective up to the millimeter frequency range and has as such been applied successfully in automotive applications for collision avoidance.
- The material is effective in reducing specular reflections as well as suppressing cavity resonances and surface currents.

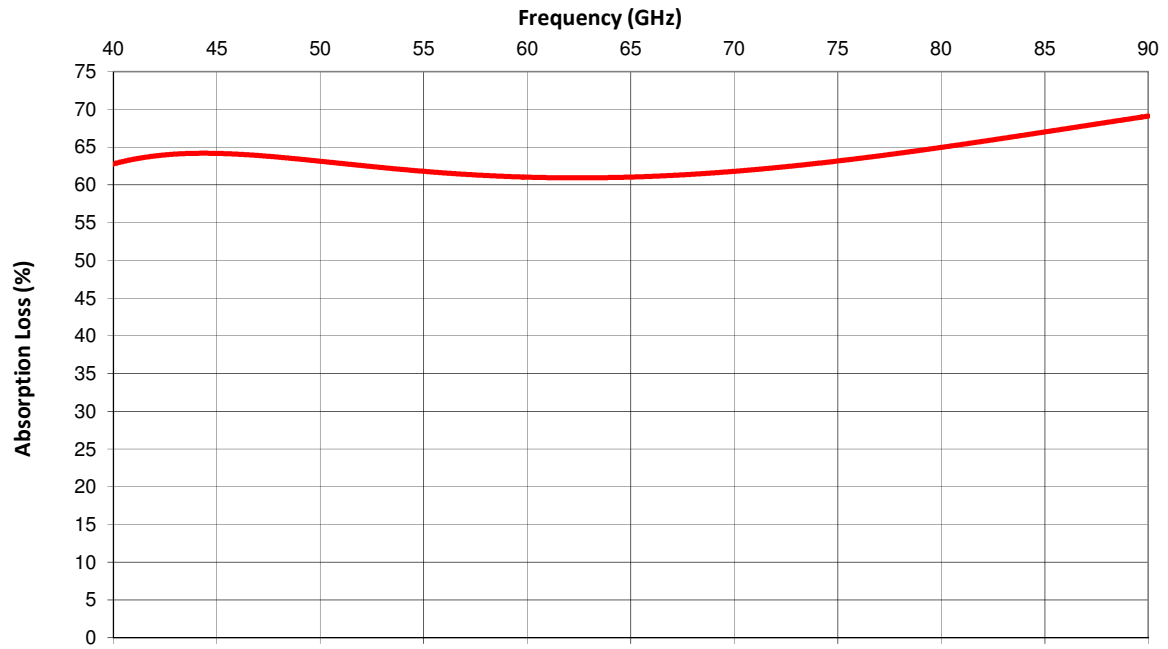
AVAILABILITY

- Standard sheet size is 30 cm x 30 cm, standard thickness 0.5 or 1 mm. Customized shapes and thicknesses can be supplied, as well as sheets with self-adhesive backing (suffix -SA).

INSTRUCTION FOR USE

- Eccosorb MMI-U is designed to function directly in front of a metallic surface. If this is not the case, a metallic foil should first be bonded to the object.
- To obtain a strong bond of the absorber to the object, the metallic surface should first be thoroughly cleaned with a degreasing solvent.
- Epoxy and acrylic adhesives are recommended or use the self-adhesive version, Eccosorb MMI-U-SA.
- Eccosorb MMI-U can be readily cut with a sharp knife and template.

Absorption Loss ECCOSORB MMI-U (1.0 mm)



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