

PU FOAM BASED MICROWAVE ABSORBERS (MICROWAVE ABSORBENT MATERIAL – FLAT ABSORBER SHEET)



FEATURES:

- ❖ Semi Open PU Foam based broadband type Embedded pyramidal microwave absorbers.
- ❖ Specially formulated coatings for better ageing Characteristics.
- ❖ Light weight, flexible and easy to cut.
- ❖ Polyurethane foam sheet dipped in absorbing Slurry providing desired electrical grading.
- ❖ Standard size is 600 mm X 600 mm. Custom Tailored sizes can also be supplied.
- ❖ Thicknesses are 45mm, 30mm, 25mm, 15mm, 10mm and 5mm (SAS-45, SAS-30, SAS-25, SAS-15, SAS-10 and SAS-5) Larger thickness can be produced to suit low frequency applications.
- ❖ Colored surface should face the incident radiation.
- ❖ The back surface (black) should be close to the metallic surface to achieve best performance.
- ❖ Provides better wider angle performance than multilayer flat absorber.

REFLECTIVITY:

Frequency Range (GHz)	Minimum Reflection Loss (dB)					
	At near normal incidence With respect to metal plate of same size					
	SAS-45	SAS-30	SAS-25	SAS-15	SAS-10	SAS-5
6.0-9.0	-20	-16	-15	-	-	-
9.0-12.0	-20	-20	-20	-	-	-
12.0-18.0	-20	-20	-20	-16	-15	-
18.0-26.0	-20	-20	-20	-16	-16	-16
26.0-40.0	-20	-20	-20	-16	-16	-16

AREAS OF APPLICATION:

- ❖ Used for isolation of adjacent antennas such as parabolic dish and horn antennas and array Elements.
- ❖ Mainly used to line the interior walls of shrouds on antenna dishes in order to suppress Side/back lobes in shadow region.
- ❖ Various camouflaging and interference suppression applications.
- ❖ Used for Low performance Anechoic Chambers in non critical areas.

MATERIAL PROPERTIES:

- ❖ Ozone resistant.
- ❖ RoHS Compliant.
- ❖ Front Surface Color is Blue.
- ❖ Regains its absorbing property after drying.

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