
Technical Data

DONGSHIN SAL -----Multi layers with gradient grades, flexible, carbon loaded, foam microwave absorber

Characteristics

◆ **basic composition:**

carbon loaded, polyurethane, multi layers with gradient carbon loading laminated together

◆ **feature:**

variable thickness and layers decide broadband frequency, lightweight, flexible, easily cut, high loss

◆ **retardancy:**

NRL report 8093 I, II, and III

◆ **working temperature:**

-50°C ~ + 80°C or -85°F ~ 176°F

Availability:

◆ **thickness**

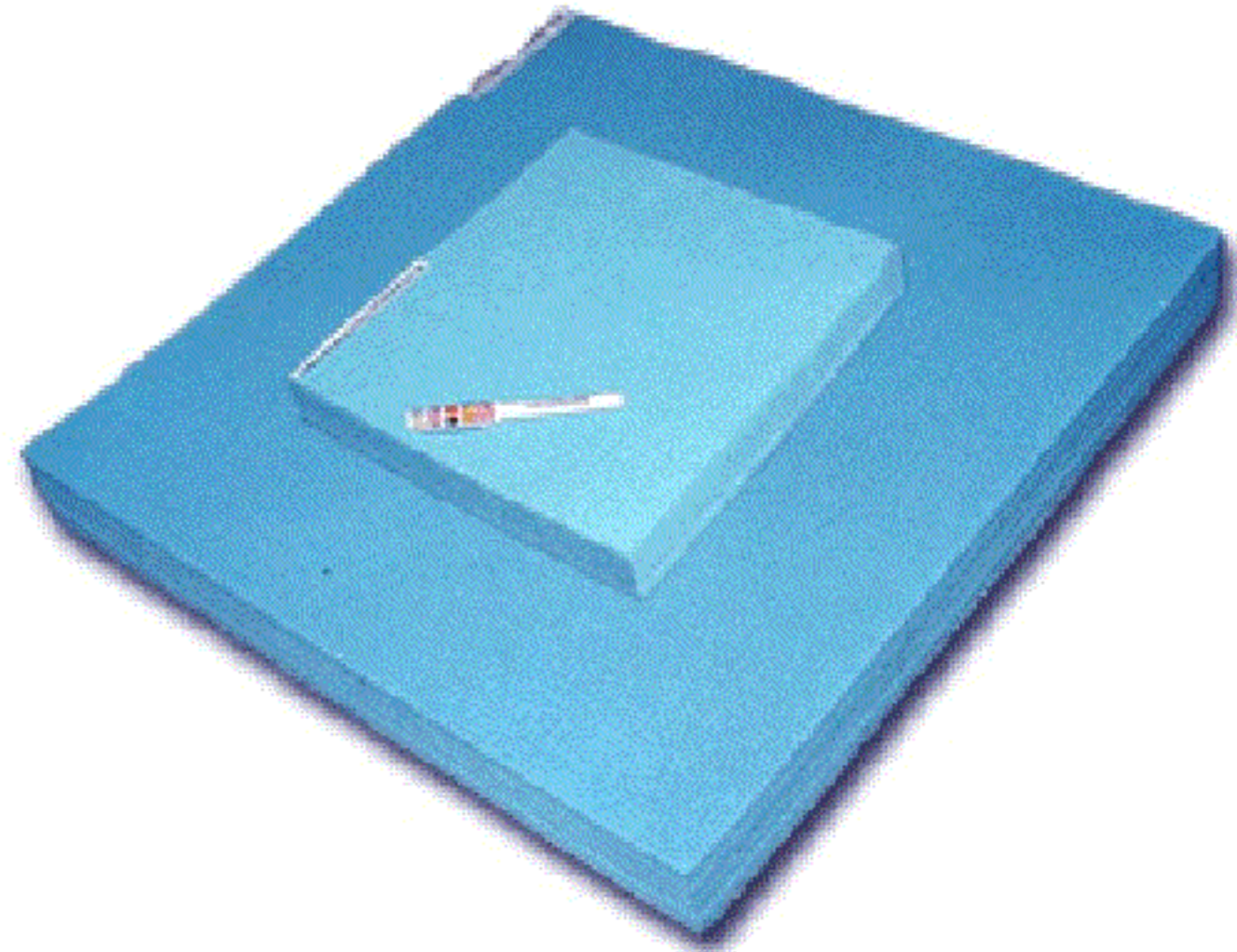
Standard thicknesses are 25mm, 50mm and 100mm. Non-standard dimensions available to fit the specific frequency range.

◆ **base size**

Standard base size is 500mm X 500 mm for all SAT type. 610mmX610mm or other sizes are available by demand

◆ **Color**

Light blue for the surface and all sides and black for the back



◆ **Frequency range**

frequencies from 1GHz to 18GHz are achieved by varying layers and levels of carbon loading

◆ **Naming**

SAL-xx
xx: material thickness in mm

◆ **Weather Proof**

alternative weather proof type is available for outdoor use. WP is attached to the end of the model name if applicable

Performance table

Grade	Thickness (mm)	Weight (kg/sqm)	Frequency range (GHz)
SAL-25	25	2.7	>5
SAL-50	50	5.2	>2.5
SAL-100	100	10.3	>1.2
SAL-25 WP	25	2.0	>5
SAL-50 WP	50	3.8	>2.5
SAL-100 WP	100	7.2	>1.2

* Attenuation in the working frequency range is within 17 dB ~ 25 dB

Applications

- ◆ SAL can be used to reduce crosstalk between antennas to improve antenna radiation patterns.
- ◆ SAL can also be used to attenuate surface currents on metal shapes
- ◆ SAL can be useful for reducing reflections for radar and radomes.

Method of installation

- ◆ For best use, it is suggested to bond the back of SAL onto a metallic structure.
- ◆ Neoprene contact adhesive is used to the substrate. To stick more efficiently, the adhesive is brushed on the substrate and wait till it dry to tack-free. Then to apply the adhesive to the back of SAL and wait for a short while when it is still sticky but not wet, and then press SAL onto the substrate.

This information is offered just for the reference of the customers who must make the final judgement of suitability for any application