

FOAMS FOR SOUND ABSORPTION

Product use:

Acoustic foams are used independently or with a variety of surface coatings to enhance their physical performance. They are also used in combination with barrier and damping materials to provide high performance noise treatment to engine bays for example.

Testing standards:

Acoustic foams are tested to AS1045 and using reverberation times at frequencies from 100 Hz to 5000 Hz. The sound absorption coefficient is calculated from these results under guidelines set in the standard.

Typical results for 29-32 kg/m³ density, open cell polyether polyurethane foam are as follow:

<i>Sample thickness</i>	<i>NRC (noise reduction co-efficient)</i>
12mm	0.25*
25mm	0.70*
50mm	0.90*

*Please note these results are typical for plain (unfaced) foams and results will differ if foil faced or laminated products are tested.

Technical Data-

Sonafoam is a special Australian made polyether grade polyurethane foam. It is naturally hydrolysis resistant and has excellent acoustic properties. This foam is therefore suitable for moist areas such as marine and commercial building environments where long life is required.

Sonafoam is a combustion modified product which will not self ignite and which is designed to comply with the American Underwriters Laboratories Inc. flammability test UL94, classified HF-1.

Sizes: Stocked sizes are 6, 12 and 25mm thick, 1400mm nom width.

Facings- Sonafoam can be supplied with fire resistant foil facing and also with a pressure sensitive adhesive (PSA) backing if required.

Surface shape- Sonafoam is typically supplied with a flat surface, however a 25mm thick version is available with a convoluted (egg crate) surface on one side.
(SonaFoam 25C)