

SORBERFOAM

Combustion Modified Acoustic Foam



SORBERFOAM is a combustion modified, hydrolysis resistant flexible polyether polyurethane foam.

SORBERFOAM is a premium and durable alternative to polyester polyurethane foam, which is traditionally used for sound absorption. It has controlled high flow resistance for maximum sound absorption.

SORBERFOAM is hydrolysis resistant. It is especially suited for use in wet and humid areas. It is particularly suited for use in marine and tropical environments.

It should be selected in preference to any polyester polyurethane foam based product as these degrade rapidly due to the effect of hydrolysis.

FEATURES

- High performance acrylic pressure sensitive adhesive backing available*
- Maximum sound absorption for minimum thickness
- Combustion modified
- Flexible
- Easily cut, shaped, fabricated and installed
- Does not shed irritating fibres
- Cut or moulded parts are available to customer requirements

APPLICATIONS

- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Boat engine compartments
- Air conditioners
- Buses, trucks and cars- under-bonnet insulation and interior sound absorption
- Headlining
- Electronic and electrical equipment
- Wall and ceiling linings for plant and equipment rooms.

BENEFITS

- Low installation cost
- Long service life
- Optimum performance
- Clean to handle
- Easy to cut
- Resists liquids, dusts and sprays
- Resists hydrolysis - will not rot

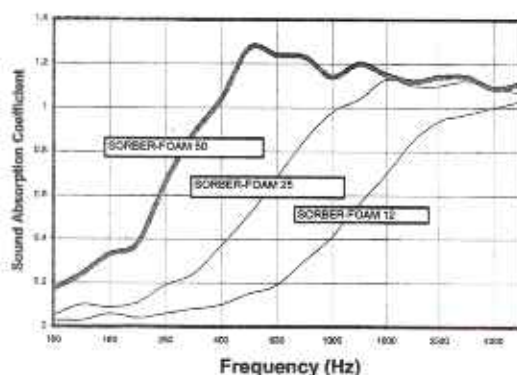
COLOUR SELECTION

- Colour - Grey

* Application precautions

- Surfaces must be smooth, clean and free from grease, loose or flaking paint, dirt, and contaminants.
- Surfaces can be cleaned with a solvent based cleaner before applying the product
- Pressure should be used when applying to any surface
- Adhesion tests are recommended for powder coated surfaces
- Aging trials should be performed on plasticised PVC

SORBERFOAM Sound Absorption



SPECIFICATIONS

STANDARD PRODUCTS	THICKNESS	ROLL LENGTH (Metres)
SORBERFOAM 12	12mm	30m
SORBERFOAM 25	25mm	30m
SORBERFOAM 50	50mm	15m

*A ending denotes Pressure Sensitive Adhesive Backed

*All Rolls supplied at 1400mm useable width.

* Other thicknesses available on request.

SOUND ABSORPTION (Tested to AS1045-1988 Reverberation Room)

FREQUENCY Hz	RANDOM INCIDENCE ABSORPTION COEFFICIENT		
	SORBERFOAM 12mm	SORBERFOAM 25mm	SORBERFOAM 50mm
100	0.00	0.05	0.17
125	0.00	0.10	0.24
160	0.05	0.15	0.33
200	0.05	0.20	0.38
250	0.10	0.30	0.66
315	0.15	0.40	0.88
400	0.20	0.50	1.04
500	0.30	0.70	1.27
630	0.40	0.75	1.24
800	0.50	0.95	1.23
1000	0.65	1.00	1.14
1250	0.75	1.10	1.2
1600	0.90	1.10	1.15
2000	1.00	1.10	1.12
2500	1.05	1.05	1.14
3150	1.05	0.90	1.14
4000	1.00	0.90	1.09
NRC(250-2000 Hz)	0.36	0.78	1.04

FLAMMABILITY PROPERTIES

MATERIAL	UL94	MVSS-302	SAEJ369a
SORBERFOAM 12	HF-1	Self Extinguishing	Self Extinguishing

MECHANICAL PROPERTIES

MATERIAL	DENSITY	TEAR RESISTANCE	TENSILE STRENGTH	ELONGATION
SORBERFOAM	28- 32kg/m ³	450N/m (min.)	0.1MPa (min.)	200% (min.)

MISCELLANEOUS PROPERTIES

MATERIAL	COLOUR	RECOMMENDED MAXIMUM SERVICE TEMP.	THERMAL CONDUCTIVITY
SORBERFOAM	GREY	140°C	0.033W/mK

CHEMICAL RESISTANCE

MATERIAL	ACETONE	MEK	PETROL	DIESEL	10% HCL SOLUT.	10% NaOH Solution	Carbon tetra-chloride
SORBERFOAM	Swells*	Swells*	Good	Good	Poor	Very poor	Good

* Swells and then returns to normal on drying.