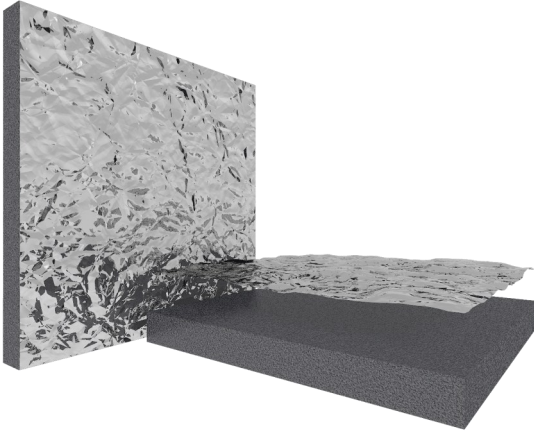




Metallised Polyester Film Faced Acoustic Foam



Sorberfoam™ M combines the next generation of combustion modified, flexible acoustic foams, with a durable impervious facing of metallised polyester film. It was developed to meet market requirements for reducing reverberation noise in light transport, mining equipment, marine and general OEM partial enclosures.

In conjunction with leading laboratories and test facilities, Pyrotek has formulated and developed polyurethane foam that outperforms traditional acoustic foams by controlling the cell size, porosity, density and the flow resistivity throughout the cell structure.

Sorberfoam M has been proven to absorb substantially more energy across the entire frequency range than traditional polyurethane foams. The metallised facing affords mechanical protection and a decorative appearance. It is impermeable to contamination by dust, oil, liquids or sprays.

Traditional polyurethane foams often break down through hydrolysis (foam rot) under hot, humid and acidic conditions. **Sorberfoam M** is engineered to resist degradation or foam rot.

Sorberfoam M offers an alternative to mineral fibre products that tend to shed fibres during application. The tendency for fibrous products to lose thickness over a period of time means their absorption properties will also be reduced. **Sorberfoam M** eliminates this hazard offering a safer alternative in noise absorption.

FEATURES

- Metallised polyester facing allows sound absorption in critical high and mid frequency region
- Lightweight with a semi decorative appearance
- Highly reflective for enhanced lighting
- Non conductive and anti-static
- Impermeable to contamination from dust, oils, liquids, fuels or sprays
- No ozone-depleting substances generated during manufacture
- Free from formaldehyde and phenolic resins
- Self-extinguishes upon flame removal
- Quick and easily installed in awkward places
- Easy to cut, adhere or mechanically fasten
- Hydrolysis (foam rot) resistant
- Does not shed irritating fibres
- Available in thicknesses from 6 to 100mm
- Available in rolls or sheets
- Choice of three high performance adhesives for fixing (See page 2)
- All rolls are typically supplied at 1400mm (Untrimmed)
- Roll lengths - typically 15, 30 and 60 lineal metres. Various roll lengths and sheet sizes also available
- Surface colour: bright silver semi decorative
- Choice of three high performance adhesives for fitting
- Seal joints with metallised tape to eliminate water and dust penetrations

APPLICATIONS

- Mining equipment
- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Hydraulic pump enclosures
- Car, boat, truck and bus compartments

Refer to our website www.pyroteknc.com to check you have the latest information page

PRODUCT SPECIFICATIONS

STANDARD THICKNESS (mm)	DENSITY (kg/m ³)	ROLL LENGTH (lineal metres)	ROLL WIDTH (mm)	THERMAL CONDUCTIVITY (w/mK)	OPERATING TEMPERATURE RANGE (°C)
6	28	60	1400*	0.033**	-40 to +90 Continuous -40 to +110 Intermittent
12		60			
25		30			
50		15			

Tolerances: Length: -0 to +50mm; Width: -0 to +5mm; Thickness: +/- 2mm; Density: +/- 5%

*Supplied untrimmed - means some surface coverings such as foils, film or fabric may overhang the ordered useable width

**Polyurethane handbook: Chemistry, Raw Materials, Processing, Application, Properties 2nd edition.

SELF ADHESIVE TAPES SPECIFICATIONS

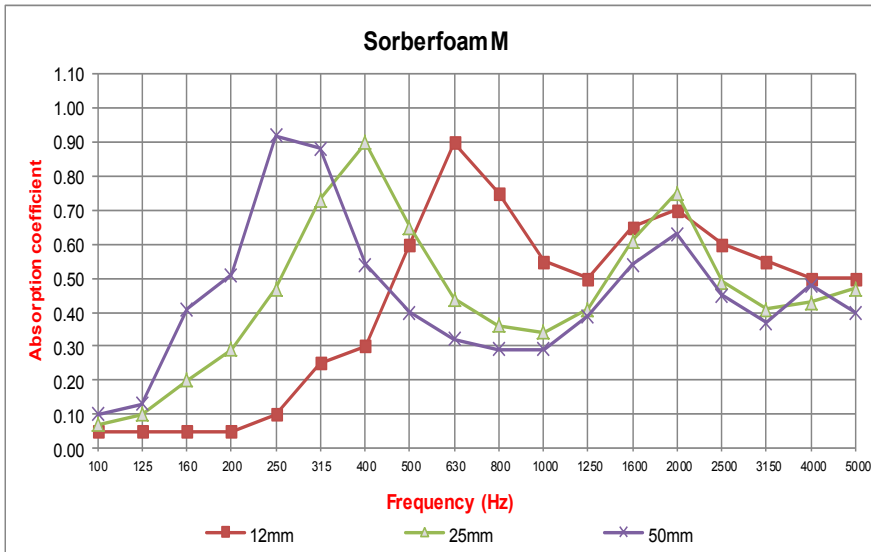
CODE	DESCRIPTION	OPERATING SERVICE TEMPERATURE °C
Alpha - A	Premium high performance transfer tape suitable for most applications.	-10 to 110
Alpha - A1	Versatile, resilient, high tack adhesive with excellent bonding strength to a wide range of substrates.	-10 to 80
Alpha - A2	Scrim reinforced acrylic backing for extra strength and high durability.	-10 to 60

Under extreme temperature conditions or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required on vertical surfaces. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to PSA adhesion.

When ordering products with adhesive backing, please specify your choice of tape with the appropriate code **A**, **A1** or **A2** as Sorberfoam M12A, Sorberfoam M12A1 or Sorberfoam M12A2. Unless otherwise stated, the standard adhesive backing supplied is premium grade (Alpha - A)

ACOUSTIC PERFORMANCE

(AS ISO 354 RMIT)



Frequency (Hz)	12 mm	25 mm	50 mm
100	0.05	0.07	0.10
125	0.05	0.10	0.13
160	0.05	0.20	0.41
200	0.05	0.29	0.51
250	0.10	0.47	0.92
315	0.25	0.73	0.88
400	0.30	0.90	0.54
500	0.60	0.65	0.40
630	0.90	0.44	0.32
800	0.75	0.36	0.29
1000	0.55	0.34	0.29
1250	0.50	0.41	0.39
1600	0.65	0.61	0.54
2000	0.70	0.75	0.63
2500	0.60	0.49	0.45
3150	0.55	0.41	0.37
4000	0.50	0.43	0.48
5000	0.50	0.47	0.40
NRC	0.50	0.55	0.60

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
UL94	After flame time ≤ 2 seconds	HBF ^o	Horizontal burn test for foam materials.
FMVSS-302	Burn rate - mm/min	Self Extinguishing	Automotive burn rate test. Complies

*Result applies to 12mm thickness.

Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

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Pyrotek
noise control