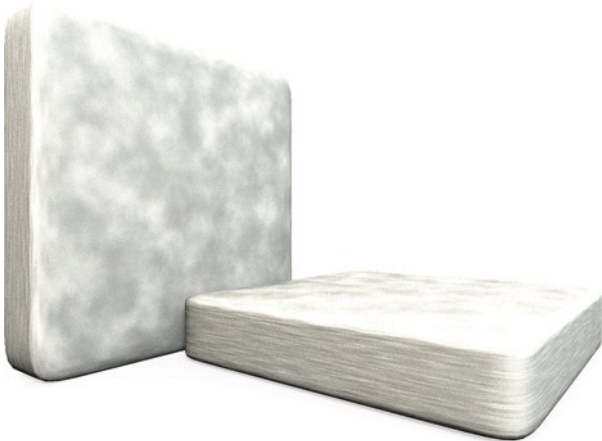




High Performance Textile Sound Absorber



Sorberpoly™ 2D acoustic insulation is a fine fibre, non-woven polyester, with excellent sound absorbing and thermal insulation properties, useful in high humidity applications.

It is fuel, oil and grease resistant. Under normal applications, the material will last a life-time.

It's a lightweight, hydrophobic (non-wicking) product which is easily cut, using scissors or a sharp knife.

Sorberpoly 2D can be used in cavities and voids within building structures, heavy transport vehicles, trains and large boats. It is also suitable to use in making baffle absorbers and office partitions.

It's low irritant and much safer and easier for operators to use than fibreglass or rockwool alternatives.

FEATURES

- Lightweight, with high NRC values per thickness
- Recyclable, manufactured from 100% polyester fibre. Environmentally friendly
- Will not degrade, crumble or smell over time
- Non toxic, will not irritate the skin when handled
- Easy to cut, heat seal, thermally or sonically weld and installed
- Non-wicking and hydrophobic (Self draining - does not hold water)
- Compressible, thermally mouldable
- Available with various surface coverings such as plain, reinforced or perforated aluminium foil, metallised film, black non-woven polyester and other available on request
- Available in thicknesses from 6 to 100mm
- Multiple assembly approaches possible
- Choice of three high performance self adhesives for ease of installation (See page 2)
- Efficient thermal insulation along with sound absorption
- Contains no resin binders to create an unpleasant odour or mildew
- Can be used as a replacement to fibreglass/ rockwool, in areas subject to high humidity and condensing moisture.

APPLICATIONS

- Fills voids that can conduct noise from adjacent rooms or from outside to inside
- Marine bulkheads and deck heads, including wall cavities and ceiling voids
- Noise control and thermal insulation for HVAC equipment
- Acoustic hanging baffles
- Acoustic wall panels
- Office infill partitions
- Open area reverberation control, as a backing material

TOXICOLOGY/HEALTH AND SAFETY

Sorberpoly 2D is completely non-toxic and safe to handle without protective clothing or respiration apparatus.

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

PRODUCT SPECIFICATIONS

THICKNESS (mm)	DENSITY (kg/m ³)	WEIGHT gm/m ²	SHEET SIZE mm x mm
25	32	800	1400X2200
50	32	1600	1400X2200

Tolerance: Thickness +/-2mm; Other weights of 24 kg/m³ to 85 kg/m³, thicknesses up to 100mm available and Roll and sheet sizes available on request.

MATERIAL PROPERTIES

RECOMMENDED MAXIMUM SERVICE TEMPERATURE	THERMAL CONDUCTIVITY	MOISTURE ABSORPTION
80°C Continuous 110°C Intermittent	0.036W/mK @ 15°C	<0.02% by volume @ 50°C 95% RH (for 4 days)

SELF ADHESIVE TAPES SPECIFICATIONS

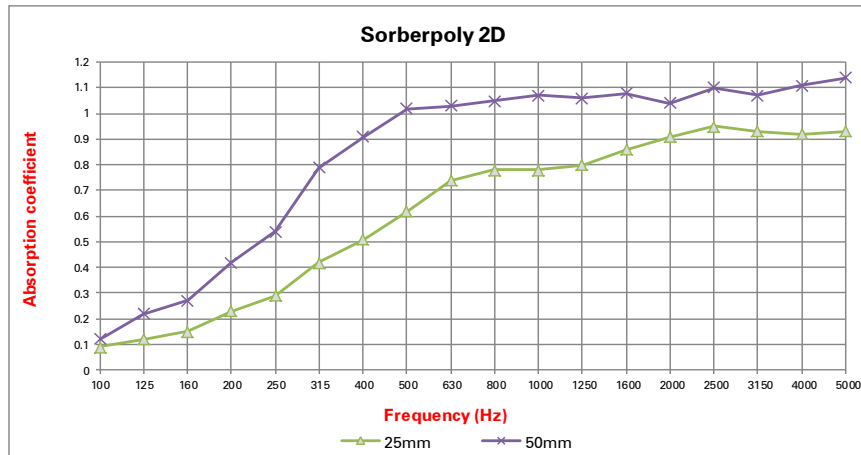
CODE	DESCRIPTION	OPERATING SERVICE TEMPERATURE	PRODUCT NAME* (e.g. for 25mm product)
Alpha - A	Premium high performance transfer tape suitable for most applications	-10 to 110°C	Sorberpoly 2D 25A
Alpha - A1	Versatile, resilient, high tack adhesive with excellent bonding strength to a wide range of substrates	-10 to 80°C	Sorberpoly 2D 25A1
Alpha - A2	Scrim reinforced acrylic backing for extra strength and high durability	-10 to 60°C	Sorberpoly 2D 25A2

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

(For details on properties of the classified self adhesive tapes and installation of PSA backed products, refer document 'PSA Tapes - 525IP' on our website www.pyroteknc.com)

ACOUSTIC PERFORMANCE

AS ISO 354 RMIT



Frequency (Hz)	25 mm	50 mm
100	0.09	0.12
125	0.12	0.22
160	0.15	0.27
200	0.23	0.42
250	0.29	0.54
315	0.42	0.79
400	0.51	0.91
500	0.62	1.02
630	0.74	1.03
800	0.78	1.05
1000	0.78	1.07
1250	0.80	1.06
1600	0.86	1.08
2000	0.91	1.04
2500	0.95	1.10
3150	0.93	1.07
4000	0.92	1.11
5000	0.93	1.14
NRC	0.65	0.90

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
AS 1530.3 1999 (Report No. 7-574373-CN)	Ignitability, Spread of Flame Heat evolved, Smoke developed	0,0,0,0-1	Method for fire tests on building materials, components and structures.
DIN 54837: 2007-12 DIN 5510-2 DIN EN ISO5659-2:2007 (Report No. 2011-1955)	-	S3, SR2, ST2	German standard of product burning behaviour for railway vehicles.
DIN 54837: 2007-12 DIN 5510-2 DIN EN ISO5659-2:2007 (Report No. 2010-2199)	-	S4*, SR2, ST2	German standard of product burning behaviour for railway vehicles.
BS 6853:1999 (Report No. 2974/R1)	Summation of toxic fumes	R= 0.037	Toxicity testing.
UL94	After flame time ≤ 2 seconds	HF - 2 (Results for 12mm material)	Horizontal burn test for foam materials.
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	Automotive burn rate test.

*Results for Sorberpoly 2D FR

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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Sorberpoly 2D

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Pyrotek
noise control