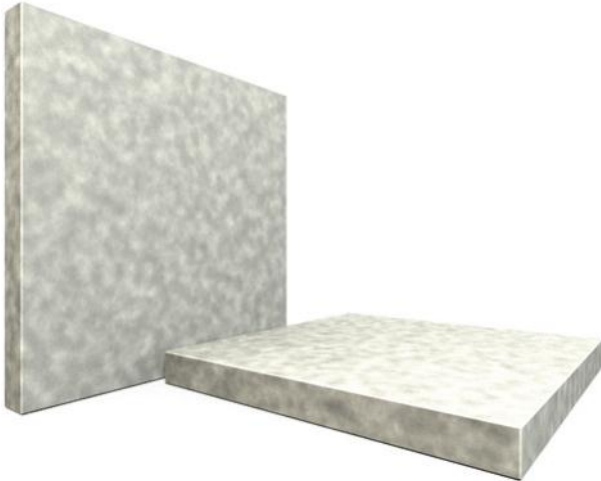




2751P
08/12

High Performance Textile Sound Absorber



Sorberpoly™ 3D acoustic insulation is an ultra-fine fibre, non-woven polyester that has excellent sound absorbing and thermal insulation properties, useful in high humidity applications. It is also fuel, oil and grease resistant.

Manufactured from 100% polyester fibre, **Sorberpoly 3D** is recyclable and environmentally friendly and is lightweight, hydrophobic (non-wicking) and easily cut, using scissors or a sharp knife.

Sorberpoly 3D uses a patented vertical lapping system employing ultra-fine polyester fibres to deliver excellent sound absorbing and thermal properties. The vertical lapping system provides resiliency to maintain high loft, important to maximising sound absorption.

When compared to insulation of comparable acoustic performance, **Sorberpoly 3D** is nearly half the weight of other absorbing mediums like foam, rockwool and fibreglass and meets the needs of a variety of manufacturing and installation approaches.

FEATURES

- Lightweight, with high sound absorption properties
- 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 install
- Non-wicking and hydrophobic
- Compressible, thermally mouldable
- Environmentally friendly
- 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 – Saves energy and money
- Can be used as a replacement to fibreglass/rockwool, in areas subject to high humidity and condensing moisture.
- Contains no resin binders to create an unpleasant odour or mildew

APPLICATIONS

- Fill voids behind panels, and in cavities, e.g. wall cavities, ceiling voids.
- Heavy duty truck, bus, earthmoving & mining equipment, wall, roof and firewalls.
- Marine, engine compartments, bulkheads and deckheads.
- Noise control and thermal insulation for HVAC equipment
- Compressor and generator set enclosures
- Acoustic baffles
- Acoustic panels
- Hydraulic pump enclosures
- Open area reverberation control, as a backing material

TOXICOLOGY/HEALTH AND SAFETY

Sorberpoly 3D 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

STANDARD PRODUCT	THICKNESS (mm)	DENSITY (kg/m ³)	ROLL LENGTH (lineal metres)	ROLL WIDTH* (mm)
Sorberpoly 3D 25	25	24	30 lm	1450
Sorberpoly 3D 50	50	24	10 lm	1450

Tolerance: Thickness +/- 2mm; *Useable width: Some surface coverings may overhang the useable width.

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 3D 25A
Alpha – A1	Versatile, resilient, high tack adhesive with excellent bonding strength to a wide range of substrates	-10 to 80°C	Sorberpoly 3D 25A1
Alpha – A2	Scrim reinforced acrylic backing for extra strength and high durability	-10 to 60°C	Sorberpoly 3D 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).

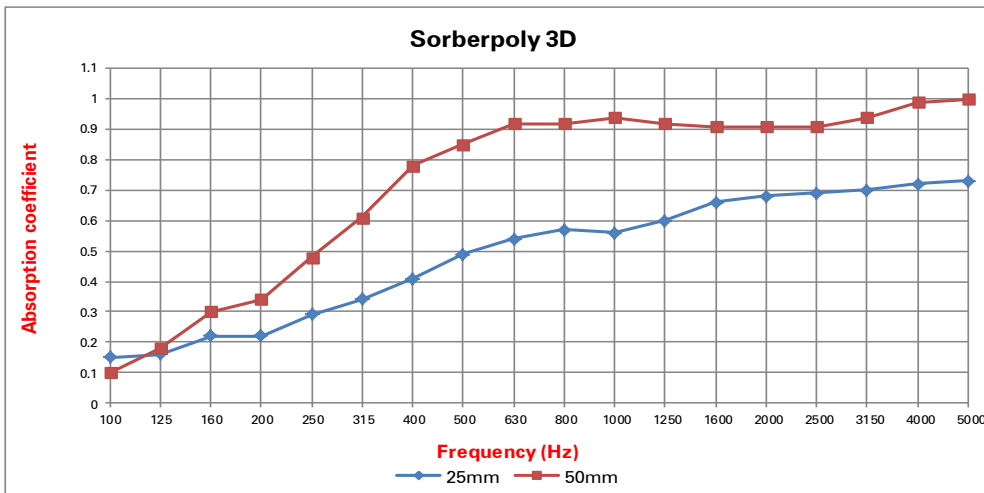
(For details on properties of the classified self adhesive tapes and installation of PSA backed products, refer document 'PSA Tapes - 525IP' on our website www.pyroteknc.com)

MATERIAL PROPERTIES

RECOMMENDED SERVICE TEMPERATURE	THERMAL CONDUCTIVITY ISO 8302-1991	MOISTURE ABSORPTION WSS-M99P32-B
80°C Continuous 110°C Intermittent	0.026 W/mK (Report No. 7-554696-NV)	0.04% by vol. At 50°C, 90% RH (for 4 days or more) (Report No. 10187-MM)

ACOUSTIC PERFORMANCE

AS ISO 354 RMIT



Frequency (Hz)	25 mm	50 mm
100	0.15	0.10
125	0.16	0.18
160	0.22	0.30
200	0.22	0.34
250	0.29	0.48
315	0.34	0.61
400	0.41	0.78
500	0.49	0.85
630	0.54	0.92
800	0.57	0.92
1000	0.66	0.91
1250	0.68	0.91
1600	0.69	0.91
2000	0.70	0.94
2500	0.72	0.99
3150	0.73	1.00
4000	0.73	1.00
5000	0.75	1.00
NRC	0.50	0.80

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
AS 1530.3 1999 (Report No. 7-560990-BV)	Ignitability Spread of Flame Heat evolved Smoke Developed	8 0 1 4	Method for fire tests on building materials, components and structures.
DIN 5510-2:2009-05 DIN 54 837:2007-12 DIN EN ISO 5659-2:2007 (Report No. 2011-1273)	-	S4, SR2, ST2	German standard of product burning behaviour for railway vehicles.
AS/NZS 3837:1998 (Report No. 7-565533-CV)	Group Certification	Group 2	Test for heat & smoke release rates for materials & products using an oxygen consumption calorimeter.
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	Automotive Burn Rate.

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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noise control