SORBERPOLY™ 2D

high-performance 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.

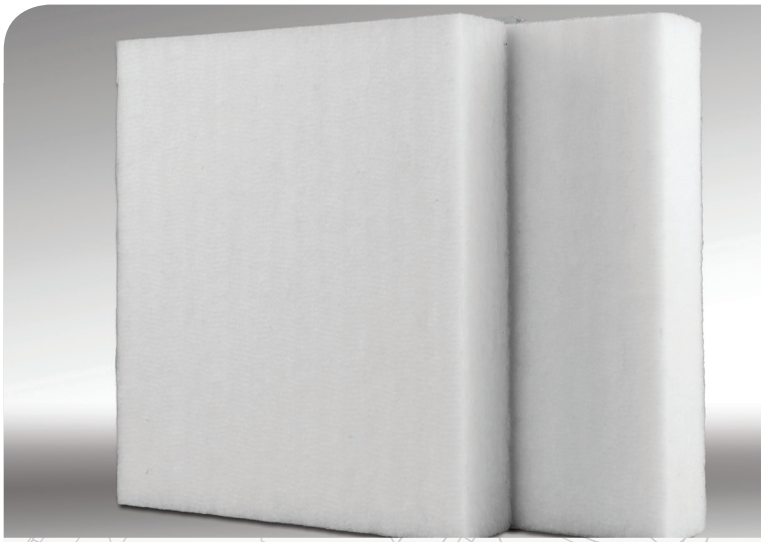
It is low irritant, safer and easier for operators to use than fibreglass or rockwool alternatives.

TOXICOLOGY/HEALTH AND SAFETY

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

SPECIFICATIONS

Colour	White with white, grey, black or beige facing and others upon request
Available	1400 x 2200 mm or customised as required Standard Thickness: 25 mm and 50 mm (Also available: 6 to 100 mm thick)
	Custom kit options also available



applications

- Fills voids that can conduct noise from adjacent rooms or from outside to inside
- Marine bulkheads and deckheads, 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

features

- Lightweight, with high NRC values per thickness
- Recyclable, manufactured from 100% polyester fibre.
- 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 various densities, and product thicknesses
- Multiple assembly approaches possible
- 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.
- Available with self-adhesive backing for ease of installation

PRODUCT SPECIFICATIONS

Standard Thickness	Product size		Moisture absorption (WSS M99P32-B)	Density	Operating temperature range*
	Length	Width			
25 mm (1 in)	2200 mm (7.2 ft)	1400 mm (4.6 ft)	2% at 38 °C, 98% RH (for 24 hrs) (Report No. 02015BD)	32 kg/m^3 (2lb/ft^3)	-50 to 150 °C (-58 to 302 °F)
50 mm (2 in)					

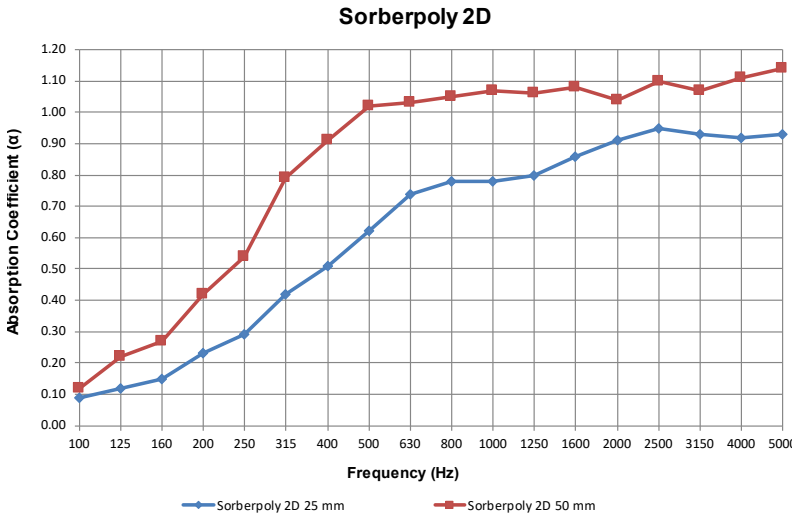
*Tolerance: Thickness ± 2 mm; Other densities and thicknesses available with varying rolls and sheet dimensions. All above products are available with pressure-sensitive adhesive backing. Under extreme temperature conditions or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required on vertical surfaces. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to PSA adhesion. Please consult your local Pyrotek representative for more information. *Higher temperatures can be suitable depending on the application.*

MATERIAL PROPERTIES

Test method	Property	Report	Results
AS 1530.3 1999	Method for fire tests on building materials, components and structures.	7-574373-CN	0,0,0,0-1
ASTM C518	Thermal conductivity	DI0567/DU01	0.036 W/mK
BS 6853:1999	Toxicity testing	2974/R1	R= 0.037
UL94	Flammability of plastic materials.	06414JY	HF-1

ACOUSTIC PERFORMANCE

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
SAA	0.66	0.93
α_w	0.60 (H)	0.90



Tested to ISO 354:2003 with Day Design, Australia
Report Number: 3502

For further information and contact details, please visit our website pyroteknc.com