

SORBERPOLY™ 2D H

hydrophobic treated, high-performance, non-woven polyester acoustic insulation

Sorberpoly 2D H acoustic insulation is a fine fibre, non-woven polyester with excellent sound-absorbing and thermal insulation properties. The product is resistant to fuel, oil and grease - benefitting the long-lasting lifespan of the product when installed under recommended applications.

Sorberpoly 2D H is lightweight and hydrophobic (nonwicking), making it suitable for high humidity applications and splash resistant. The hydrophobic treatment prevents polyester from absorbing moisture, keeping the material lightweight and dry. This resists mold, rot, and bacterial growth, ensuring durability in humid environments and maintains high sound-absorption performance.

Sorberpoly 2D H is typically installed in cavities and voids in building structures, heavy transport vehicles, trains and large boats. The product is also suitable to use in making baffle absorbers or office partitions

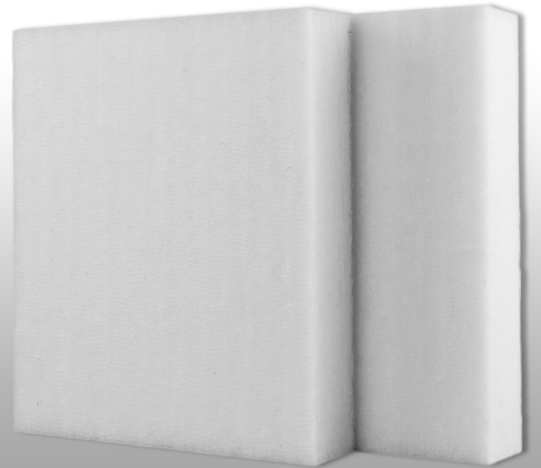
Being a low irritant product, it provides a safer and more comfortable product for operators to handle compared to fibreglass or mineral wool alternatives. Sorberpoly 2D H is also easy to install by simply cutting using scissors or a retractable utility knife. If required, the product is available with various facing options to meet customer specification.

VOC, ODP, HEALTH AND SAFETY

Sorberpoly 2D H is non-toxic and safe to handle by methods prescribed in the Safety Data Sheet. No ozone depleting substances are used during the manufacture of Sorberpoly 2D H.

SPECIFICATIONS

Colour	White
Available	Standard size: 2m x 1.4 m (6.5 ft x 4.6 ft) Standard thickness: 25 mm (1 in) & 50 mm (2 in)
	Available in sheets or rolls. Custom sizes and/or thicknesses available depending on MOQ.



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 and acoustic wall panels
- Office infill partitions or 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 or crumble
- No unpleasant odour or mildew
- Non-toxic, will not irritate the skin when handled
- Easy to cut, heat seal, thermally or sonically weld and installed
- Non-wicking and hydrophobic - does not hold water, avoids contamination and generation of odours
- Compressible/thermally mouldable
- Available plain and with various surface coverings such as aluminium Glass cloth, reinforced aluminium foil and others available upon request
- Multiple assembly approaches are 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/mineral wool, in areas subject to high humidity and condensing moisture
- Available with self-adhesive backing for ease of installation



PRODUCT SPECIFICATIONS

Standard thickness	Standard length	Standard width	Density	Operating temperature ¹
25 mm (1 in)	2 m (6.5 ft)	1.4 m (4.6 ft)	20 kg/m ³ (1.25 lb/ft ³)	-50 to 150 °C (-58 to 302 °F)
50 mm (2 in)				

Tolerance: Thickness ±5%. All above products are available with pressure-sensitive adhesive backing.

Under extreme temperature and humidity conditions, air flow or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to pressure sensitive adhesive. Please consult your local Pyrotek representative for more information.

Manufacture can vary by region. Product or parts may be manufactured under agreement with a third party, meeting general specifications listed within the technical datasheet.

¹Higher temperatures can be suitable depending on the application.

MATERIAL PROPERTIES

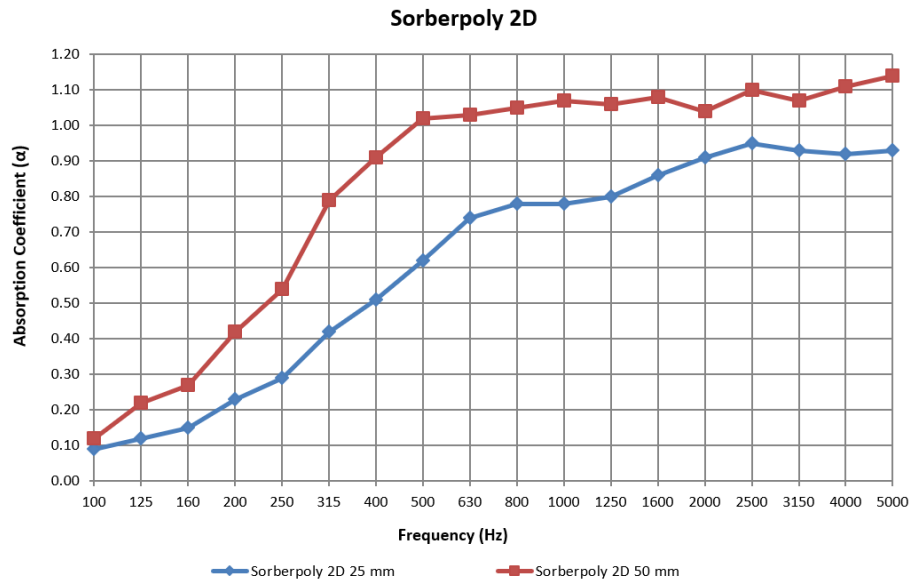
Test method	Property	Report no.	Results
EN 45545-2 (ISO 5658-2)	Spread of flame	0240-25-F	R1 (HL1, HL2, HL3) for 10 mm to 150 mm products (0.2 to 5.9 in)*
EN 45545-2 (ISO 5660-1: 50 kWm ⁻²)	Heat release rate by cone calorimeter		
EN45545-2 (ISO 5659-2: 50 kWm ⁻²)	Smoke generation (optical density)	0241-25-F	R7 R17 (HL1, HL2,) for 10 mm to 150 mm products (0.2 to 5.9 in)*
EN45545-2 (EN 17084 (1): 50 kWm ⁻²)	Gas Toxicity		

*Tested with Backing Adhesive layer

ACOUSTIC PERFORMANCE

Frequency (Hz)	Sorberpoly 2D 25 mm	Sorberpoly 2D 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
Acoustic results are based on 32 kg/m³ density material.



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

Caveats: Specifications are subject to change without notice. The data in this document is 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, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek 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 pyroteknc.com/disclaimer.

