

SORBERTEXTILE™ P52

lightweight acoustic textile absorber and protective facing

Sorbertextile P52 is Pyrotek's acoustic textile absorber which can be used on its own or in conjunction with other common acoustic materials such as foams or polyesters. It offers a robust alternative to commonly used absorbers, providing a highly versatile product for harsh environments. Sorbertextile P52 was engineered to deliver excellent sound absorption results, reducing reverberation in mid to high frequencies when installed with an air cavity of as little as 20 mm. The air gap can be increased, offering better absorption in the lower frequency to meet acoustic requirements. If the application includes acoustic foam or polyester in the air cavity, the performance will increase across the full frequency range.

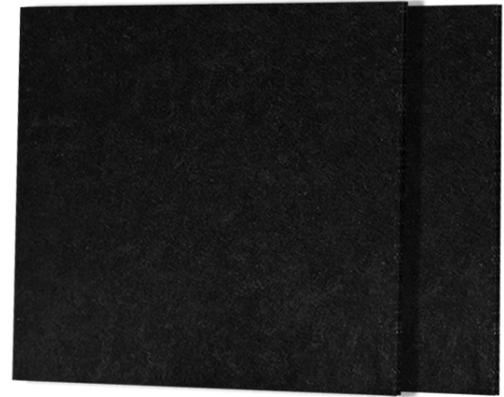
The product is suitable for use in a variety of environments ranging from industrial to commercial applications. Designed with versatility in mind, Sorbertextile P52 can protect porous absorbers from damage while providing a finish to suit most interior designs.

VOC, ODP, HEALTH AND SAFETY

Sorbertextile P52 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 Sorbertextile P52.

SPECIFICATIONS

Colour	Black
Available	Standard sheet size: 1.45 m x 2.42 m Nominal thickness: 1.5 mm
	Custom sizes, colours and/or thicknesses available depending on MOQ



applications

- All types of acoustic panels
- Automotive soundboards
- Office partitions
- Concert halls and auditoriums
- Recording studios
- Silencers
- Power stations
- Plant rooms
- Classrooms and lecture theatres
- Factories
- Enclosures

features

- Easy to tune to the noise spectrum for maximum sound absorption impact
- Lightweight - no bulk
- Low flammability and smoke index
- No unpleasant or harmful fibres
- Easy to install
- No unpleasant or harmful fibres
- Mouldable

PRODUCT SPECIFICATION

Product	Nominal thickness	Standard length	Standard width	Max storage temperature
Sorbertextile P52	1.5 mm (0.06 in)	2.42 m (7.94 ft)	1.45 m (4.76 ft)	40 °C (104 °F)

Tolerances: Length: ±1%, Width: -0/+5 mm (0.2 in), Thickness: ±0.5 mm (0.02 in)

ACOUSTIC PERFORMANCE (WITH AIR-GAP)

Frequency (Hz)	with 25 mm air-gap	with 50 mm air-gap	with 75 mm air-gap
100	0.12	0.13	0.14
125	0.15	0.17	0.20
160	0.15	0.19	0.25
200	0.20	0.26	0.38
250	0.22	0.31	0.44
315	0.20	0.30	0.40
400	0.23	0.39	0.52
500	0.21	0.39	0.53
630	0.21	0.42	0.59
800	0.22	0.50	0.72
1000	0.27	0.65	0.87
1250	0.43	0.82	0.84
1600	0.58	0.86	0.71
2000	0.66	0.91	0.33
2500	0.86	0.66	0.22
3150	0.94	0.17	0.15
4000	0.84	0.14	0.12
5000	0.73	0.11	0.09
NRC	0.35	0.55	0.55
SAA	0.36	0.54	0.55
α_w	0.30 (H)	0.35 (MH)	0.30 (LM)

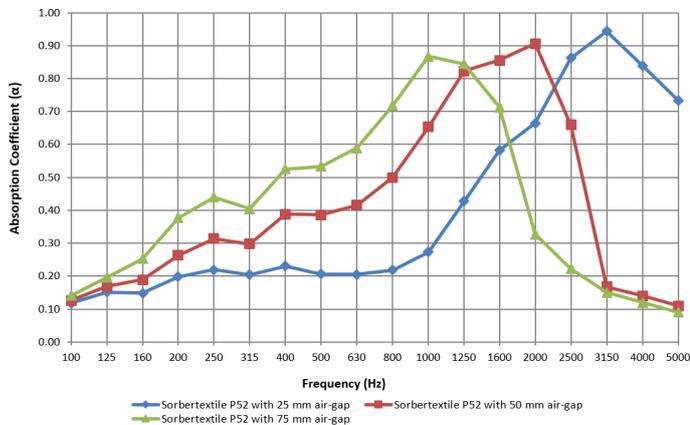
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(WITH SORBERPOLY 2D)

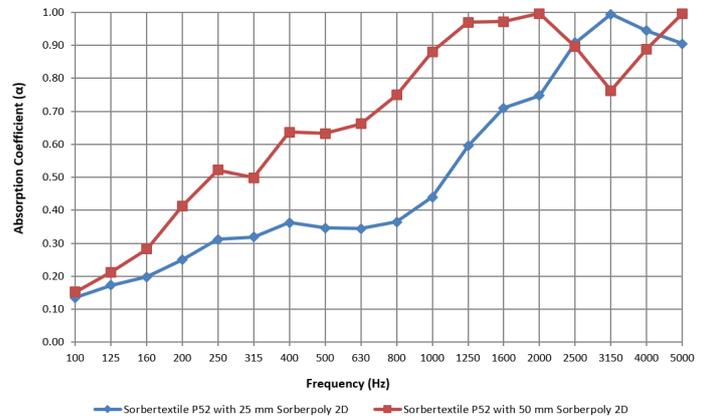
Frequency (Hz)	with 25 mm Sorberpoly 2D	with 50 mm Sorberpoly 2D
100	0.13	0.15
125	0.17	0.21
160	0.20	0.28
200	0.25	0.41
250	0.31	0.52
315	0.32	0.50
400	0.36	0.64
500	0.35	0.63
630	0.34	0.66
800	0.37	0.75
1000	0.44	0.88
1250	0.60	0.97
1600	0.71	0.97
2000	0.75	1.00
2500	0.91	0.90
3150	0.99	0.76
4000	0.94	0.89
5000	0.90	1.00
NRC	0.45	0.75
SAA	0.48	0.74
α_w	0.45 (H)	0.70 (H)

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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.

