

SORBERPOLY™ 3D P52

the ultimate lightweight acoustic polyester insulation

Sorberpoly™ 3D is a thin, lightweight specialised acoustic textile with excellent sound absorbing and thermal insulation properties.

Being fuel, oil and grease resistant, the material performs especially well in high humidity applications.

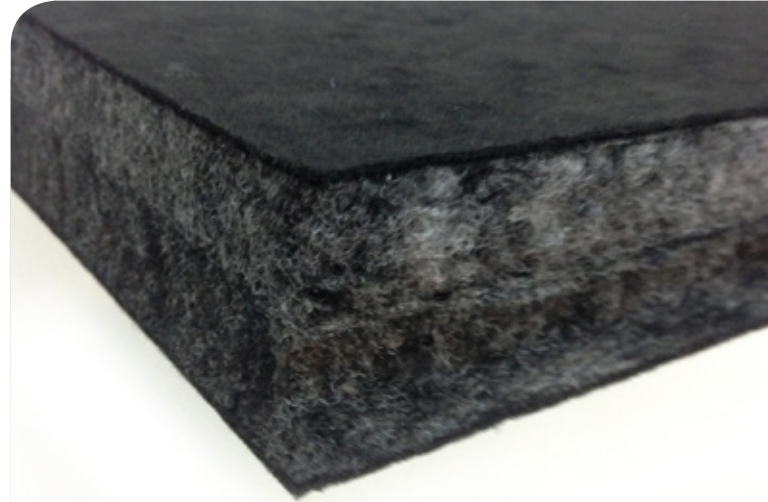
Sorberpoly™ 3D is made from ultra-fine, non-woven polyester fibres to deliver excellence in acoustic and thermal requirements, with the added bonus of being safe and easy to handle. It's unique, high density, compressed polyester facing on both sides is ideal for enhanced durability and protection.

Manufactured from 100% recyclable polyester fibre, Sorberpoly™ 3D is sensitive to the environment and is lightweight, safe to handle and easily cut, using scissors or a sharp knife.

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 and exceeds the needs of a variety of manufacturing and installation approaches.

SPECIFICATIONS

Colour	Dark grey with black facing standard
Available	thickness 45 mm
	1350 x 2400 mm or custom depending on MOQ



applications

- Optimised noise reduction in truck and tractor cabins, industrial vehicles and HVAC equipment
- Absorber for rooftop HVAC noise barriers and enclosures
- Highly effective in the speech interference range, especially suited to industrial applications
- Compressor, generator and hydraulic pump, machinery and equipment enclosures
- Heavy duty truck, bus, earthmoving & mining equipment, wall, roof and firewalls
- Acoustic enclosures, control rooms and recording studios
- Internal wall and ceiling lining for offices and factories

features

- Lightweight, with premium sound absorption
- Resists weather, water and UV pollution over an extended period of time
- Durable, compressible, flexible
- Non toxic and safe to handle without protective clothing or respiration apparatus, will not irritate skin
- Simple to install or retrofit
- Does not hold water
- Low flammability
- Made from 100% recyclable polyester
- No odour



PRODUCT SPECIFICATIONS

Product name	Standard thickness (mm)	Density (kg/m ³)	Sheet length (mm)	Sheet width (mm)	Recommended service temperature °C
Sorberpoly 3D P52	45	28	2400	1350	80°C Continuous

Tolerances: Length: -0 to +50mm; Width: -0 to +5mm; Thickness: +/- 2mm; Density: +/- 5%.

MATERIAL PROPERTIES

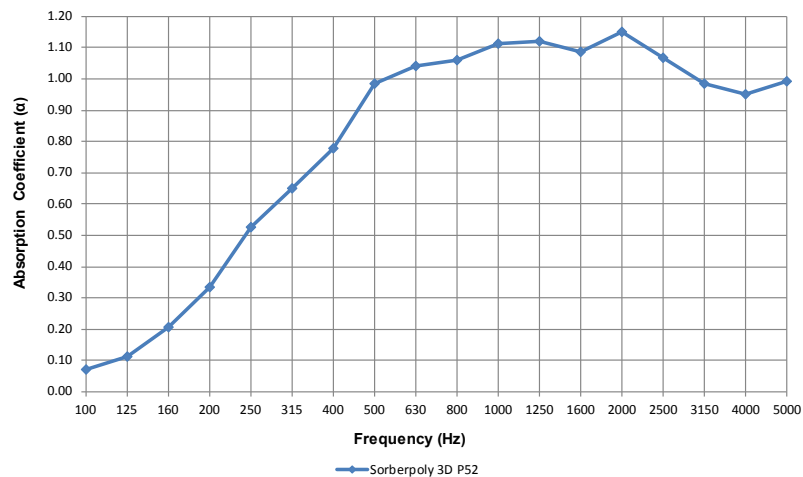
Test method	Index	Results	Report no.	Description
UL94	After flame time ≤ 2 seconds	HF - 2 (for 12mm material)	Report No. 2011-1605	Horizontal burn test for foam materials
FMVSS-302	Burn Rate - mm/min	Self extinguishing	Report No. 2011-1605	Automotive burn rate
ASTM C 518		0.0399 W/mK	Report No. DI0519-DU01	Thermal conductivity

ACOUSTIC PERFORMANCE

Frequency (Hz)	P52
100	0.07
125	0.11
160	0.21
200	0.33
250	0.53
315	0.65
400	0.78
500	0.98
630	1.04
800	1.06
1000	1.11
1250	1.12
1600	1.09
2000	1.15
2500	1.07
3150	0.99
4000	0.95
5000	0.99
NRC	0.95
SAA	0.91
α_w	0.80 (H)

Tested to ISO 354:2003 (modified: 1/4 scale room)
Report Number: 08216AR

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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.

