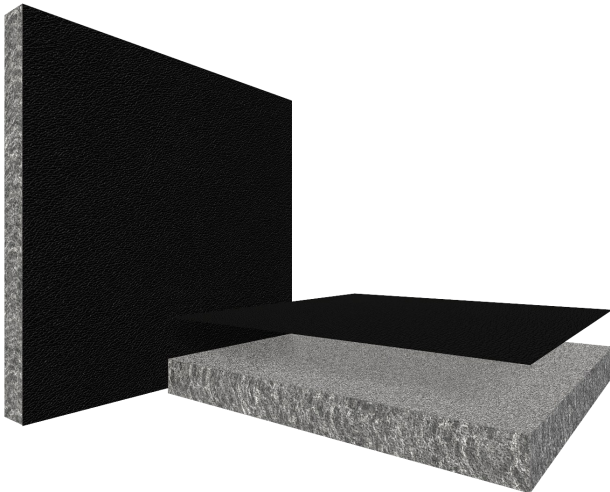




High Performance Non-Woven Textile Faced Sound Absorber



Sorberpoly™ 3D NW has been developed in response to demand for an environmentally resistant, economic, light-weight, high performance, sound absorbing insulation. Pyrotek's focus on innovation and technology have resulted in a product that offers very high sound absorption at the most important frequencies, combined with excellent mechanical and physical properties.

Sorberpoly 3D NW finds extensive use as a lightweight high performance sound absorption material in the marine, HVAC and whitegoods markets.

It exhibits an unusual blend of acoustic and mechanical properties that allow its use in particularly demanding situations.

The product provides excellent NRC values at substantially reduced weight compared to other textile based, foam and fibreglass absorptive solutions.

Sorberpoly 3D NW does not wick or retain water hence it does not encourage the development of odours associated with water contamination or provide a source of moisture to promote corrosion on metal substrates.

For the convenience of Original Equipment Manufacturers, this product can be supplied cut to size on our CNC cutting machinery. For in house cutting, fabricators can use scissors or electro-mechanical rotating or reciprocating blade cutters.

FEATURES

- Premium sound absorption properties
- Available in a range of thicknesses
- Pressure sensitive acrylic adhesive backing (optional)
- Easy to install
- Non wicking - avoids contamination and generation of odours
- Lightweight with high sound absorption properties
- User friendly – No protective clothing required
- Non-toxic, non-irritant and non-allergenic
- Long-term stability and performance even in dynamic applications
- Environmentally friendly (>50% regenerated fibre content)

APPLICATIONS

- Noise control and thermal insulation for HVAC and other OEM equipment
- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Air-conditioning units and systems
- Acoustic baffles
- Acoustic panels
- Hydraulic pump enclosures
- Office and open area reverberation control, as a backing material

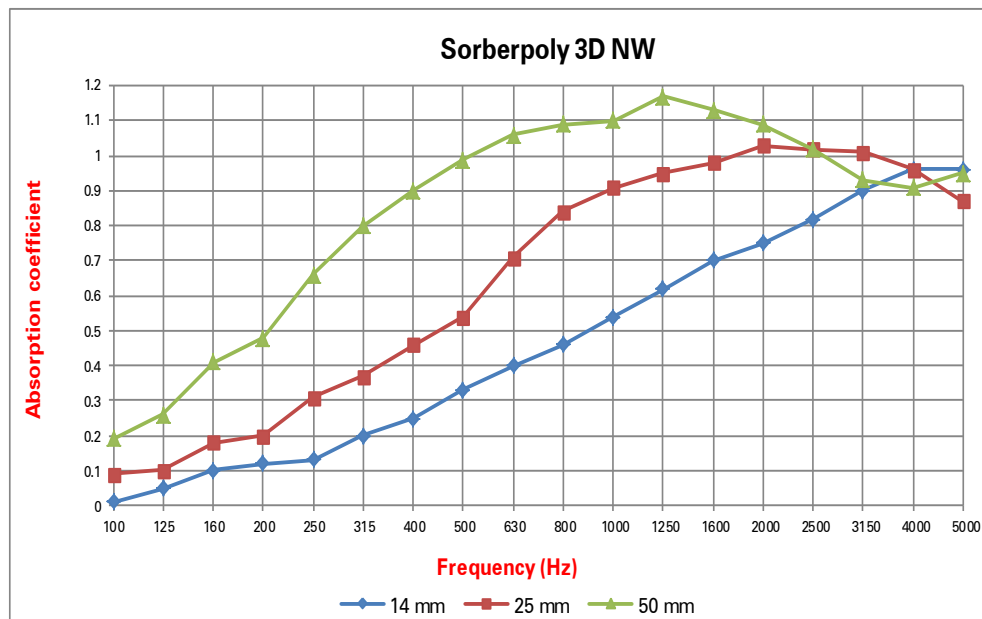
BENEFITS

- Higher NRC/weight ratio than competitive materials
- Self adhesive – easy to install
- Manufactured from 100% polyester fibre
- Can be moulded to special shape requirements
- Does not hold water
- Can be used as an acoustic foam replacement in areas subject to high humidity and condensing moisture
- Contains no resin binders to create an unpleasant odour

Refer to our website www.pyroteknc.com to check you have the latest information page

ACOUSTIC PERFORMANCE

AS ISO 354 RMIT



Frequency (Hz)	14 mm	25 mm	50 mm
100	0.01	0.09	0.19
125	0.05	0.10	0.26
160	0.10	0.18	0.41
200	0.12	0.20	0.48
250	0.13	0.31	0.66
315	0.20	0.37	0.80
400	0.25	0.46	0.90
500	0.33	0.54	0.99
630	0.40	0.71	1.06
800	0.46	0.84	1.09
1000	0.54	0.91	1.10
1250	0.62	0.95	1.17
1600	0.70	0.98	1.13
2000	0.75	1.03	1.09
2500	0.82	1.02	1.02
3150	0.90	1.01	0.93
4000	0.96	0.96	0.91
5000	0.96	0.87	0.95
NRC	0.45	0.70	0.95

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
AS 1530.3 1999 (Report No. 7-549085BV)	Ignitability Spread of Flame Heat evolved Smoke Developed	9 0 2 4	Method for fire tests on building materials, components and structures.
AS/NZS 3837:1998	Groups Classification	Group 2	Test for heat & smoke release rates for materials & products using an oxygen consumption calorimeter.
UL94	After flame time ≤ 2 seconds	HBF	Horizontal burn test for foam materials. Complies.
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	Automotive Burn Rate.

STANDARD PRODUCTS

STANDARD PRODUCT	THICKNESS (nominal)	DENSITY	ROLL LENGTH	ROLL WIDTH*
Sorberpoly 3D NW 14	14mm**	24kg/m ³	30m	1450mm
Sorberpoly 3D NW 25	25mm**	24kg/m ³	30m	1450mm
Sorberpoly 3D NW 50	50mm	24kg/m ³	15m	1450mm

Tolerance: Thickness +/-2mm

* Useable width: Some surface coverings may overhang the useable width.

** Pressure sensitive adhesive backing available. Please consult with your Pyrotek representative for more details.

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)

TOXICOLOGY/HEALTH AND SAFETY

SORBERPOLY 3D is completely non-toxic and safe to handle without protective clothing or respiration apparatus.

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 date 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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Pyrotek
noise control