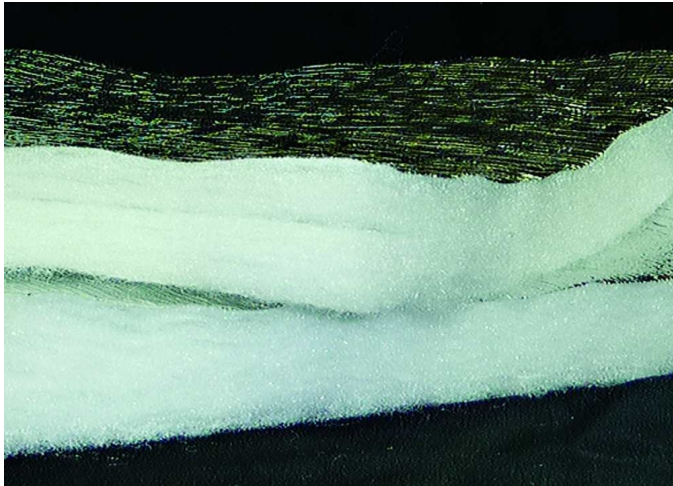




### Reinforced Aluminium Foil Faced Textile Sound Absorber



**Sorberpoly™ 2D ALR** is a reinforced aluminium foil faced 2D polyester insulation made from fine fibre polyester, non-woven with excellent sound absorbing and thermal insulation properties, useful also in high humidity applications.

The reinforced aluminium foil provides a light, heat reflective, flame resistant facing which protects the 2D composition from the ingress of dust, oil and other contaminants.

**Sorberpoly 2D ALR** does not wick or retain water hence it does not encourage the development of smells associated with water contamination or provide a source of moisture to promote corrosion on metal substrates.

It's lightweight, hydrophobic (non-wicking) and easily cut, using scissors or a sharp knife.

It 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.

**Sorberpoly 2D ALR** is low irritant and much easier for operators to use than fibreglass or rockwool alternatives.

#### FEATURES

- Lightweight, with high sound absorption properties (high NRC values )
- Excellent fire resistance performance to AS 1530.3
- Will not degrade, crumble or smell over time
- Non toxic, will not irritate the skin when handled
- Easy to cut
- Non-wicking and hydrophobic - avoids contamination and generation of odours
- Compressible
- Good thermal insulator with a thermal conductivity of  $k=0.036$  W/mK
- Long-term stability and performance even in dynamic applications.
- Multiple assembly approaches possible. Meets the needs of a variety of manufacturing and installation approaches.
- Light and heat reflective impermeable facing
- Available in thicknesses from 6 to 100mm
- Choice of three high performance self adhesives for ease of installation (See page 2)

#### APPLICATIONS

- Marine, truck and bus engine compartments, firewalls and bonnet liners
- Hydraulic pump enclosures
- Machinery and equipment enclosures
- Compressor and generator set enclosures
- Noise control and thermal insulation for HVAC equipment
- Air-conditioning units and systems
- Acoustic panels

#### TOXICOLOGY/HEALTH AND SAFETY

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

Refer to our website [www.pyroteknc.com](http://www.pyroteknc.com) to check you have the latest information page

## PRODUCT SPECIFICATIONS

STANDARD PRODUCT	THICKNESS (mm)	ROLL LENGTH (lineal metres)	ROLL WIDTH* (mm)	R VALUE	DENSITY (kg/m <sup>3</sup> )
Sorberpoly 2D ALR25	25	20	1400	0.70	32
Sorberpoly 2D ALR50	50	10	1400	1.40	32

Tolerance: Thickness +/-2mm; Other thicknesses and sheet sizes available on request

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

## SELF ADHESIVE TAPES SPECIFICATIONS

CODE	DESCRIPTION	OPERATING SERVICE TEMPERATURE	PRODUCT NAME* (e.g. for 25mm product)
Alpha – A	Premium high performance transfer tape suitable for most applications	-10 to 110°C	Sorberpoly 2D ALR25A
Alpha – A1	Versatile, resilient, high tack adhesive with excellent bonding strength to a wide range of substrates	-10 to 80°C	Sorberpoly 2D ALR25A1
Alpha – A2	Scrim reinforced acrylic backing for extra strength and high durability	-10 to 60°C	Sorberpoly 2D ALR25A2

\*When ordering products with adhesive backing, please specify your choice of tape with the appropriate code A, A1 or A2 as listed in the column. Unless otherwise stated, the standard adhesive backing supplied is premium grade (Alpha - A).

(For details on properties of the classified self adhesive tapes and installation of PSA backed products, refer document 'PSA Tapes - 525IP' on our website [www.pyroteknc.com](http://www.pyroteknc.com))

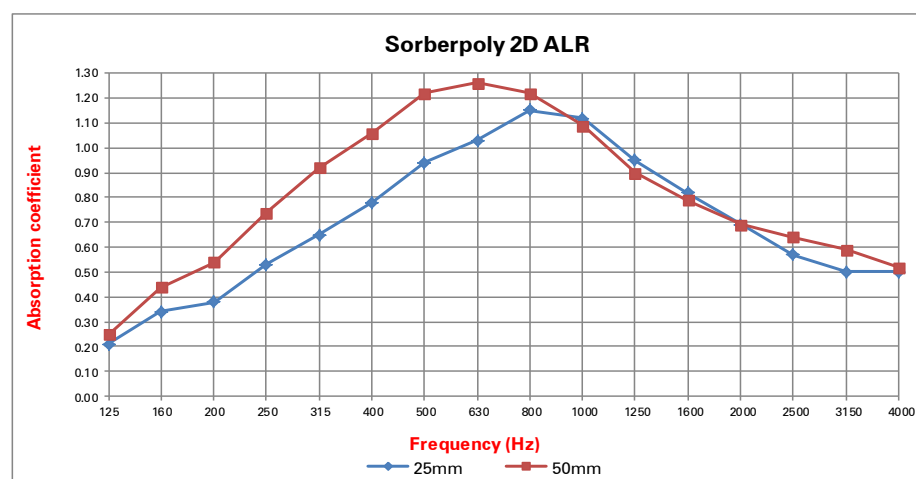
## MATERIAL PROPERTIES

RECOMMENDED MAXIMUM SERVICE TEMPERATURE	MOISTURE ABSORPTION* WSS M99P32-B	THERMAL CONDUCTIVITY
80°C Continuous 110°C Intermittent	2% by Vol. At 50°C and 95% RH (for 4 days or more)	0.036W/mK at 15°C

\*For polyester only

## ACOUSTIC PERFORMANCE

AS ISO 354 RMIT



Frequency (Hz)	25 mm	50 mm
100	0.21	0.21
125	0.21	0.25
160	0.34	0.44
200	0.38	0.54
250	0.53	0.74
315	0.65	0.92
400	0.78	1.06
500	0.94	1.22
630	1.03	1.26
800	1.15	1.22
1000	1.12	1.09
1250	0.95	0.90
1600	0.82	0.79
2000	0.69	0.69
2500	0.57	0.64
3150	0.50	0.59
4000	0.50	0.52
5000	0.48	0.48
NRC	0.80	0.95

## FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
BS 476 Part 6 1989 +A1 : 2009 (Report No. 195780)	Fire Propagation Index, I Sub Index i1 Sub Index i2 Sub Index i3	7.9 5.5 1.9 0.5	Fire propagation for products.
BS 476: Part 7: 1997 (Report No. 195781)	Class1 Class2 Class3	Class 1	Classification of the surface spread of flame.
FMVSS-302	Burn Rate - mm/min	Self Extinguishing	Automotive burn rate test.

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 data 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](http://www.pyroteknc.com/disclaimer).

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Sorberpoly 2D ALR

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**Pyrotek**  
noise control