

# SORBERSEAL PE

## hatch and door seal

Sorberseal PE is a closed cell cross-linked polyolefin foam. It is primarily used where there are undesirable gaps or spaces in construction, which need to be filled or where there is a need for a decoupling layer between two layers of material. It can be effectively used as a single or double layer depending on the gap/space required to be filled.

Sorberseal PE comes in a standard thicknesses of 5 and 8 mm thickness however others are available on request.

It is lightweight fairly rigid, yet soft enough to be trimmed with a knife to any particular thickness, hence allowing flexibility during installation and a wider range of applications.

Due to its nature it offers more resilience than open cell foam hence having better sealing properties. Being closed cell, it will not absorb water and has good performance where there is a need to isolate surfaces from heat or vibration.

Sorberseal PE is available with a self adhesive making it easy to install on all type of surfaces from metals to plastics. Both foam and adhesive have temperature resistance of at least 100°C.

### SPECIFICATIONS

Colour	grey
Standard	5 mm and 8 mm (thickness) 1.5 m x 100m, 1.4m x 50m (roll sizes)



### applications

- Building industry
- Sheet metal and plastic fabrications
- Computer peripherals
- Office equipment
- Medical equipment
- Communications equipment
- Motor housings
- White goods
- Boat hulls and bulkheads
- Transportation
- Plastic housings

### features

- Broad temperature range
- Light weight and maximum performance
- Suitable for outdoor exposure
- Low flammability
- Chemical resistant
- Can be supplied cut-to-size
- Available with self adhesive
- Easy to install
- Good resistance to rodents and insect infestation
- Ideal for weight sensitive applications



## PRODUCT SPECIFICATIONS

Product name	Thickness (mm)	Density (kg/m <sup>3</sup> )	Weight (gm/m <sup>2</sup> )	Roll width (mm)	Thermal conductivity (w/mk)	Operating temperature range °C
Sorberseal PE	5 ±2mm	25	125	1500	0.032 at 23°C mean (ASTM C518)	-80 to 100°C
Sorberseal PE	8 ±2mm	25	200	1400		

Tolerances: Thickness: +/- 2mm; Other thicknesses, roll and sheet sizes available upon request.

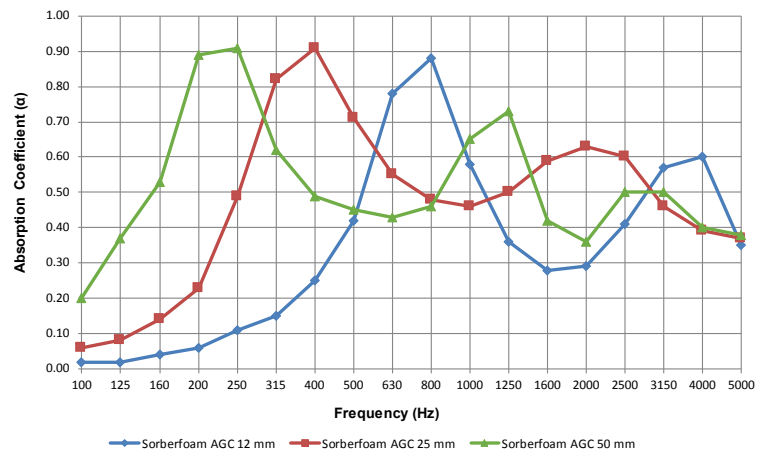
## MATERIAL PROPERTIES

Test method	Report no.	Results	Description
AS/NZS 1530.3		Ignitability - 0	Method for fire tests on building materials, components and structures.
		Smoke developed - 5	
ASTM G21		Good	Standard to determine resistance of synthetic polymeric materials to fungi.
JIS K 6767		0.09	Water absorption (mg/cm <sup>2</sup> )
		3.3 (longitudinal) 1.8 (crosswise)	Tensile Strength (kg/cm <sup>2</sup> )
		240 (longitudinal) 140 (crosswise)	Elongation(%)
		2.0 (longitudinal) 1.3 (crosswise)	Tear Strength (kg/cm)
		7.5 @ 25% deflection 30.0 @ 50% deflection	Compression Set (%)
Internal		0.3 @ 25% deflection 0.85 @ 50% deflection	Compression Strength (kg/cm <sup>2</sup> )
JIS Z 0208		5.3	Water vapour transmission rate of moisture-proof materials. Permeability (g/m <sup>2</sup> )
Internal		-1.5 (longitudinal) -0.9 (crosswise)	Dimensional heat change (%). Exposure to 70°C for 22 hrs

## ACOUSTIC PERFORMANCE

Frequency (Hz)	12 mm	25 mm	50 mm
100	0.02	0.06	0.20
125	0.02	0.08	0.37
160	0.04	0.14	0.53
200	0.06	0.23	0.89
250	0.11	0.49	0.91
315	0.15	0.82	0.62
400	0.25	0.91	0.49
500	0.42	0.71	0.45
630	0.78	0.55	0.43
800	0.88	0.48	0.46
1000	0.58	0.46	0.65
1250	0.36	0.50	0.73
1600	0.28	0.59	0.42
2000	0.29	0.63	0.36
2500	0.41	0.60	0.50
3150	0.57	0.46	0.50
4000	0.60	0.39	0.40
5000	0.35	0.37	0.38
NRC	0.35	0.55	0.60
$\alpha_w$	0.35	0.55	0.50 (L)

Sorberfoam AGC



(Tested ISO 354-2003 at Canterbury University, New Zealand—Report Numbers 278,279,280)

For further information and contact details, please visit our website [pyroteknc.com](http://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 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 [pyroteknc.com/disclaimer](http://pyroteknc.com/disclaimer).*

