



Basotect from B6

Low density foam, open celled structure and excellent sound absorption properties.

Product description

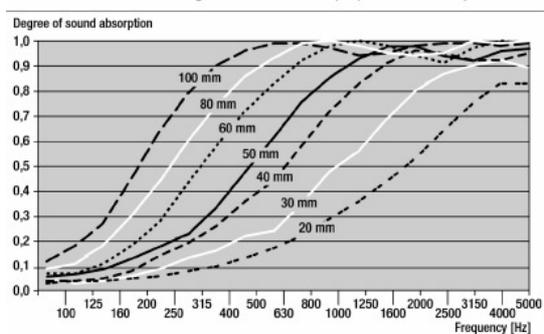
Basotect® is flexible and an open celled foam, made from melamine resin. The density of the material is $\approx 9,5 \text{ kg/m}^3$.

Acoustic behavior

Test results from the acoustic trials in the impedance tube according to ISO 10534-2 and in the reverberation room according to DIN EN ISO 354 are shown in diagrams 1

Repeat measurements and regular quality control in the production of Basotect shows that the acoustic values remain within a tight tolerance range. This small scatter of the characteristic data for the material makes Basotect a reliable and enduring acoustically effective absorber.

Diagram 1: Degree of sound absorption α_n of Basotect G depending on the thickness according to ISO 10534-2 (impedance tube)



Fire behaviour

Basotect®'s long-term heat resistance and outstanding fire behavior can be attributed to the melamine resin component. The high nitrogen content of this resin accounts for the extremely high flame-resistance of the foam without the use of additional flame retardants.

In case of a fire, Basotect®'s thermoset nature ensures that it does not melt or create flaming droplets when exposed to flames. The foam merely chars under slight smoke generation and does not exhibit any afterglow. This is why Basotect® is especially suitable for applications that call for increased fire-protection require-

ments. When the fire behavior of Basotect® was tested under national and international standards, the product achieved the highest possible classification that can be reached by organic materials.

DIN 4102, B1
Low flammability
P-HFM 01 4 200

Chemical resistance

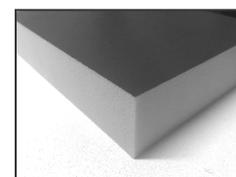
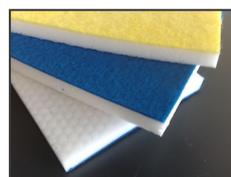
Thanks to Basotect®'s highly cross-linked structure, it is resistant to all organic solvents. When it comes to acids and alkalis, the resistance has to be checked in concrete application cases since the temperature, the exposure time and the concentration all have a great deal of influence on the resistance of the foam to these media.

Thermal conductivity

DIN EN 12677 @ 50mm thickness.
 $\lambda_{10} = 0,035 \text{ w/mk}$

Dimensions:

B6 can deliver the material in different thicknesses, adapted to the missions design.



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