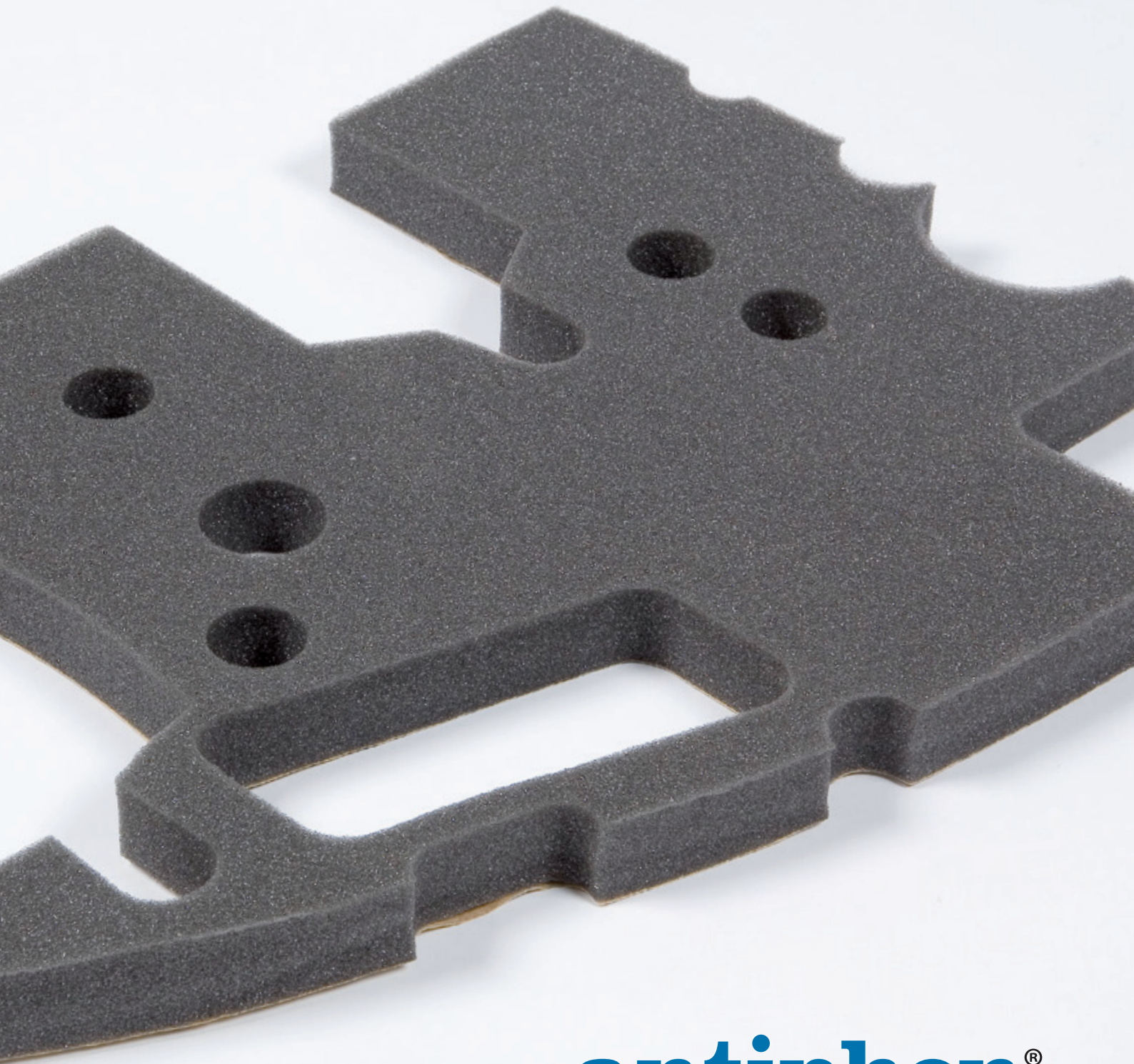


antiphon LA

FOR AIR-BORNE SOUND ABSORBING



antiphon[®]

The silent sound of Quality



antiphon LA – for air-borne sound absorbing

antiphon® LA is a family of open-cell foam materials available in various qualities to optimize the acoustic properties for different applications. antiphon® LA comply with different fire regulations and can be obtained in different dimensions and surface finishes. The products are available with various kinds of protective film which give a resistant surface and comply with aesthetic requirements in driver's cabin engine compartments etc.

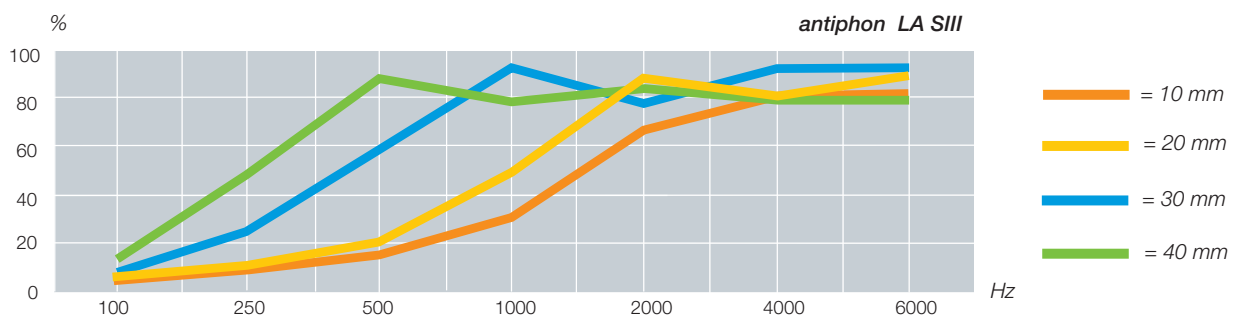


Other antiphon® LA products are closed cell plastic foam materials for gaskets and seals, and an absorber consisting of a moulded resin impregnated glass-fibre covered with a reinforced al-foil for high fire requirements. The products can be ordered with or without adhesive.

Acoustic properties

Absorption depends on thickness and frequency

The ability of the sound damping material to absorb air-borne sound depends on its thickness. The so called air absorption factor α , a dimensionless number which refers to the ratio of absorbed energy to the energy incident on the sound damping material, is used as a measure of the sound damping properties of the material. Factor α can theoretically be between 0 and 1, corresponding to none or full absorption. In all sound absorbing materials, α varies with the frequency of the sound.



Above, in the graph, is an example of how the sound damping properties of one of our sound absorbing foams, antiphon® LA SIII, varies with thickness and frequency. This sound absorbing material is specially developed to comply with demands for fire resistance. This specific foam complies with the requirements in UL 94 HF-1. The National Fire Protection Association (NFPA) requires that all material in office machinery should comply with these requirements.

Applications

To absorb air-born sound, seal between different applications or avoid the occurrence of squeaks, such as in passenger cars, trucks and site machinery. In the housings and enclosures for machine tools, compressors, computers, printers, switchgear, fans, electric motors etc.

Method of application

antiphon® LA air-born sound absorbing material can be cut or punched into pieces of desired size before the protective paper is removed. The substrate must be free from grease, dust, damp or other contamination before application. Application is easiest to do if the sound damping material is bent and fixed along the shorter side.

Products with pressure sensitive adhesives must be pressed securely so that the adhesive has a chance to grip the substrate. antiphon® LA and substrate should be at room temperature when being applied.

Combined products

antiphon® LA air-born sound absorbing material can also be laminated to padding for structure borne sound damping to give the product wider acoustic performances. One example of these combined products is antiphon® LDA.

Delivery format

Foam sheets of about 500 x 1000 mm or 1200 x 1500 mm, but the size can vary depending on the product. Thicknesses from 3 mm and upwards. Other dimensions, thicknesses and punched components will be offered upon request.



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