Technical Information

Noiseflex® Pigmento MH

Noiseflex® MH is a flexible open-cell foam material made from melamine resin, a thermoset from the group of aminoplastic resins. Its characteristic feature is its filigree open network structure formed from slender and hence readily thermo formable filaments.
Due to a special manufacturing technology, we are able to stain Noiseflex® MH into various colours, e. g. according to the RAL colours, to produce Noiseflex® Pigmento MH.

Noiseflex® Pigmento MH in colour offers a wide range of attractive features. Its outstanding qualities are:

- high sound-absorption capability
- good thermal insulation characteristics
- low weight

It is these advantages of Noiseflex® Pigmento MH that result in its extensive use in construction, industrial and plant engineering, the automotive industry, technical and electrical systems, air conditioning technology and acoustics.
Noiseflex® Pigmento MH can be supplied in many configurations, e.g. as:

- Noiseflex® Classic MH (sheets) or Noiseflex® Classic Plus MH (sheets with phase)
- Noiseflex® Pyramis MH (pyramid sound absorbers)
- Noiseflex® Corpo MH (baffel and ball sound absorbers)
- Noiseflex® Freestyle MH (special formed parts like round and square profiles)

Physical Characteristics:
Noiseflex® MH has good chemical resistance to a wide range of substances. It contains no halogenated hydrocarbons.
However, allowance should be made for the fact that, like wood, Noiseflex® Pigmento MH absorbs water, resulting in a change in its volume.

Colours:
We can have Noiseflex® Pigmento MH coated to your requirements in the various RAL shades. This allows you to implement whatever colour schemes you may have in mind. The effect of this surface coating on the thermal insulation and sound absorption qualities of Noiseflex® MH remains very limited in extent.
In principle, all RAL shades can be obtained when adding colouring. Please note however:

- The minimum quantity is 20 m².
- Due to Noiseflex® Pigmento MH's open-pore and open-cell structure, which must be retained to conserve its characteristics, the colours may be considerably more matt in appearance than on an RAL colour card, depending on which RAL shade is selected. For this reason, we recommend that you first have a sample of your desired shade produced by us and then make a decision based on the sample.
- Due to Noiseflex® Pigmento MH's sorption behaviour it is inevitable that the finished coloured product will appear slightly "cloudy".

Further Versions:
As a special type, Noiseflex® Pigmento Picture MH is available with a tissue coating printed with pictures is available. This is a other milestone in combining real room acoustic with decorative interior design. Please give us your request.

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Tab 1: Technical Data

Temperature stability (long-term service temperature)	80 °C max.	
Thermal conductivity (depending on temperature)	λ ≤ 0.04 W / mK	DIN 52 612
Fire behaviour	Class C, s2, d0 flame-retardant	DIN EN 13501

The values specified are based on individual preliminary tests.

Processing Notes:

Dust occurring on processing, e.g., during cutting and milling, should be extracted directly at the cutting site. It is recomm that a dust mask is worn during this work.

Due to the sorption behaviour of melamine resin, in combination with the open-cell structure of the foam material, the moi content of the material changes depending on the ambient conditions.

This involves dimensional changes, analogous to those which occur in wood, concrete or bricks. Allowance must be made for this behaviour during processing. The foam parts, which are packaged on arrival, must be unpacked and kept under the ambient conditions prevailing for the application in question for **a minimum of 3 to 5 days** prior to processing. This is extremely important if any later undesirable dimensional changes to the material in terms of its length, width or thickness are to be avoided.

For full surface gluing of Noiseflex® Classic MH, Noiseflex® Classic Plus MH, Noiseflex® Pyramis MH, or other cuts made of Noiseflex® MH onto walls or ceilings we recommend our BOSIG Acoustic Adhesive. Please observe the technical instruction sheet specifications and the processing notes of BOSIG Acoustic Adhesive.

Particularly sheets, pyramids or other cuts made of Noiseflex® MH shall be installed with continuous joints. Displacements are to be avoided. Or with a shadow gap of 10 to 20 mm, for achieving an optimal appearance.

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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