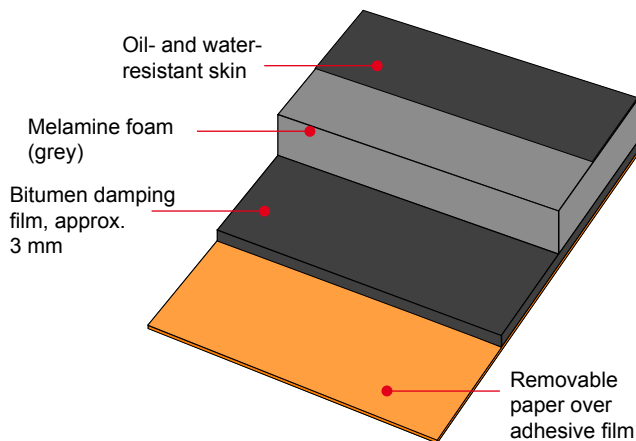
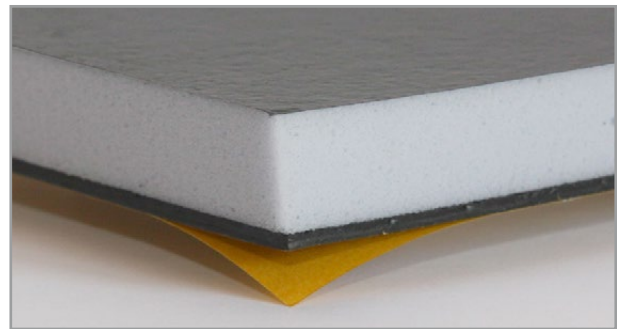


## Acoustic insulation matting

### Structure



### Side view



### Application areas

Sound absorption and acoustic insulation of metal assemblies such as:

- Machine housings
- Vehicle construction
- Ventilation systems
- Heat exchanger housings
- Computer cases

### Properties

**Dinaphon® M 4831** is ideal for noise damping thin sheet metal assemblies. Optimal sound absorption through laminated melamine foam layer.

High resistance to many chemical substances. With oil-resistant PU skin.

### Handling

Ensures adhesion over entire area of a dry base surface free of grease and dust. Do not apply at temperatures below 18 °C.

Remove protective film from the self-adhesive layer and press on firmly without trapping air bubbles.

The product can be cut easily with a sharp knife.

### Storage

In a dry room for 6 months at 15–25 °C.

### Technical data

Product designation	<b>Dinaphon® M 4831</b>
Weight per unit area	approx. 5.2–5.5 kg/m <sup>2</sup>
Adhesive strength at 20 °C/22 hours	> 5 N/cm <sup>2</sup>
Working temperature:	
Foam	-60 to +150 °C
Damping film	-10 to +80 °C
Thermal conductivity:	
Foam	< 0.035 W/m <sup>2</sup> K
Damping film	0.52 W/m <sup>2</sup> K
Flammability:	
Melamine foam	Fire coefficient BKZ 5.3
Damping film according to MVSS 302	<75 mm

### Delivery options

**Sheet size:** 1200 x 1000 mm  
**Thicknesses:** 13, 23, 33, 43 mm

**Designation:** M 4831/13, M 4831/23  
M 4831/33, M 4831/43

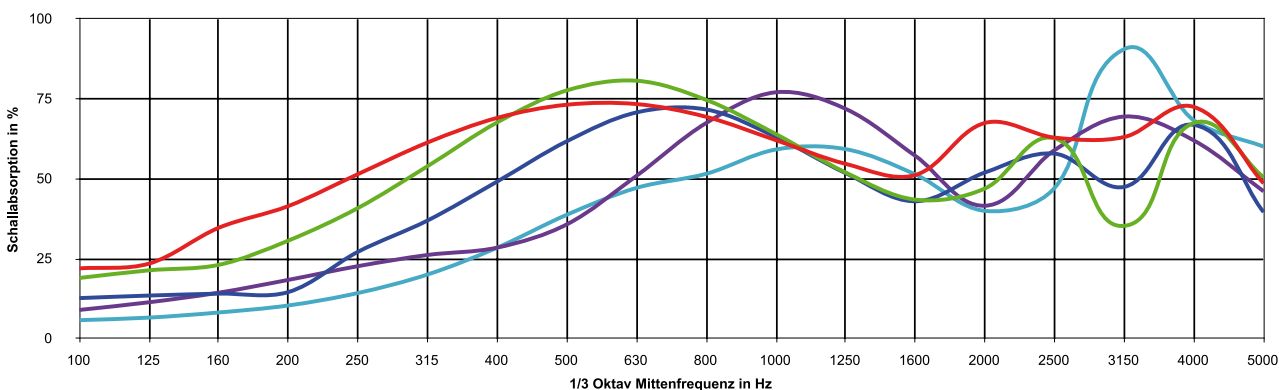
### Pre-cut pieces:

We will be pleased to provide you with an offer for pre-cut pieces according to your specifications or from drawing files for small series runs.

### Sound absorption

#### Kundt's Tube

	50mm	40mm	30mm	20mm	10mm
100 Hz	22	19	12.7	9	5.8
125 Hz	23.5	21.4	13.5	11.4	6.6
160 Hz	34.7	23.1	14.1	14.4	8.2
200 Hz	41.5	30.7	14.6	18.4	10.4
250 Hz	51.5	40.9	27.2	22.7	14.3
315 Hz	61.4	54	37	26.2	20.1
400 Hz	69.1	67.7	49.2	28.5	28.5
500 Hz	73.2	77.7	61.8	35.8	38.8
630 Hz	73.4	80.7	70.8	51	47.2
800 Hz	69.4	74.7	71.7	67.5	51.6
1000 Hz	62.1	64	63.1	77.1	59.2
1250 Hz	54.7	52	51.8	71.9	59.3
1600 Hz	51.2	43.5	43	57.2	51.4
2000 Hz	67.5	47	52	41.6	40
2500 Hz	62.9	62.7	57.9	59	47.2
3150 Hz	63.1	35.3	47.5	69.5	90.6
4000 Hz	72.5	67.5	66.9	62	68.3
5000 Hz	48.6	50.5	39.6	46.1	60.1



We provide our recommendations, application advice and instructions for usage to the best of our knowledge. Because of continual improvements, they are not binding and some trials

may be required to determine the material's suitability for the intended processes and purposes.

