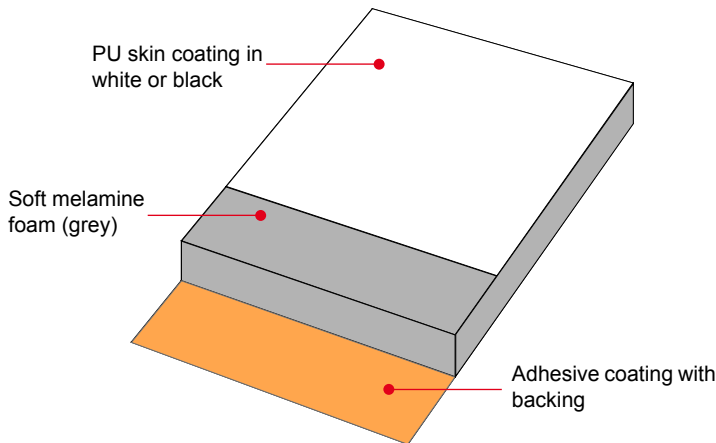
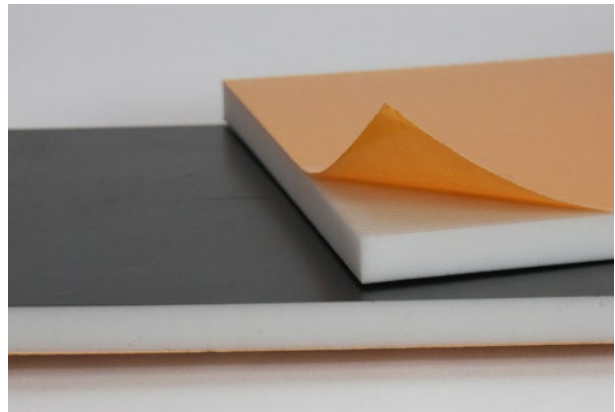


### Cross Section



### Close-up



### Applications

- Ductwork
- Machinery jacketing
- Machinery

### Attributes

**Dinaphon® B 831** absorption sheets have excellent absorption properties and are highly resistant to many chemical substances.

Melamine foam has different sized pores with a maximum of 10 pores of 5 - 15 mm diameter per square metre. Dimensional deviation of up to 1.5 % in the length and width may occur and is acceptable.

### Application

Substrates must be dry, oil-free and dust-free when the sheets are stuck to the surface. Full surface contact is necessary as is a temperature of at least 18° C for the installation to achieve satisfactory results. Remove the protective backing and firmly press the panel on to the desired surface, avoiding air pockets.

**Dinaphon® B 831** easily cuts to size with a sharp knife.

### Storage

Good for 6 months if stored in a dry area at temperatures ranging between 15 - 25° C.

### Technical Data

| Product Data                                     | Dinaphon® B 831  |
|--|------------------|
| Bulk density of foam                             | 8.5 – 11.5 kg/m³ |
| Thermal stability:                               |                  |
| Foam   | - 60 to + 150 °C |
| Foam fire ratings:                               |                  |
| Building material rating of foam as per DIN 4102 | B1               |
| BKZ (Swiss fire code rating)                     | 5.3              |
| Rated thermal conductivity $\lambda$ (W/m²K)     | 0.035            |

### Packaging Unit and Form

**Sheet size:** 1200 x 600 mm  
**Sheet thickness:** 10, 20, 30, 40 mm  
 Other thickness available on request!

#### Product variant designations:

B 831/10, B 831/20, B 831/30

“W” indicates white; “S” indicates black colour

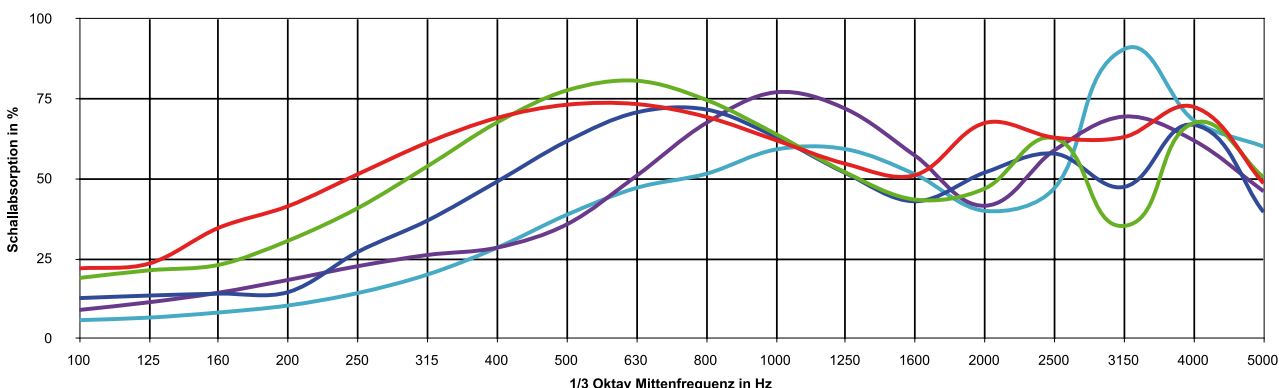
#### Cut to order sheets::

Keller will be glad to cut sheets to specific size requirements indicated in customer plans or drawing files for both small and large orders. Ask for a price quote.

### 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 |



Siegfried Keller AG provides its assistance, application-specific advice and product use instructions to the best of its knowledge and ability. Siegfried Keller AG reserves the right to make the changes to its products and information, which are the result of its constant efforts to improve both the information and products, and shall not be held liable for damages occurring due to the

information or assistance it provides. Moreover, the information provided by Siegfried Keller AG shall not nullify the responsibility of the purchaser of the products to test the suitability of the materials for the intended application, process and purpose prior to using them.

