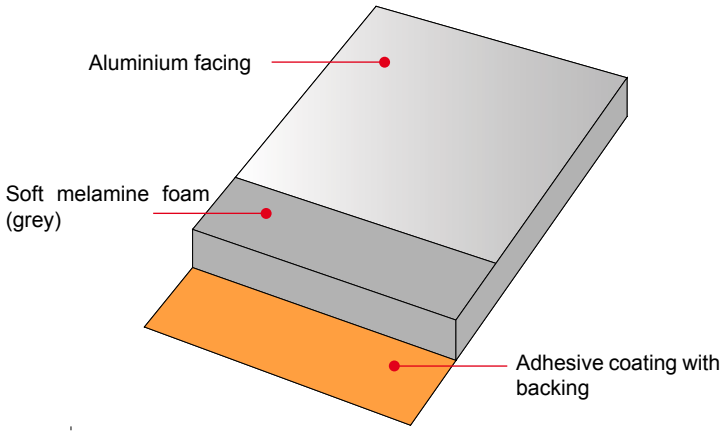
Dinaphon® B 871

Absorption and Thermal Insulation

Datasheet

Cross Section



Close-up

Applications

- Machinery jacketing
- Motor vehicles
- Railway carriages

Attributes

Dinaphon® B 871 has excellent absorption and thermal insulation properties and is highly resistant to many chemical substances. Due to their vapour tight aluminium facing, the elements are ideal for use as lining in motor vehicle cabins.

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 sheet on to the desired surface, avoiding air pockets.

Dimensional deviation of up to 1.5 % in the length and width may occur and is acceptable.

Storage

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

Technical Data

Product Data	Dinaphon® B 871
Bulk density of foam	8.5 – 11.5 kg/m³
Thermal stability:	
Foam	- 60 to + 150 ˚C
Adhesive	Up to 80°C
Fire ratings as per DIN 5510Section 2	S4, SR2, ST2,
BKZ (Swiss fire code rating)	5.3
Rated thermal conductivity λ (W/m²K)	0.035

Packaging Unit and Form

Sheet size: 1200 x 1000 mm
Sheet thickness: 10, 20, 30, 40 mm
Product variant designations:
B 871/10, B 871/20, B 871/30, B 871/40

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

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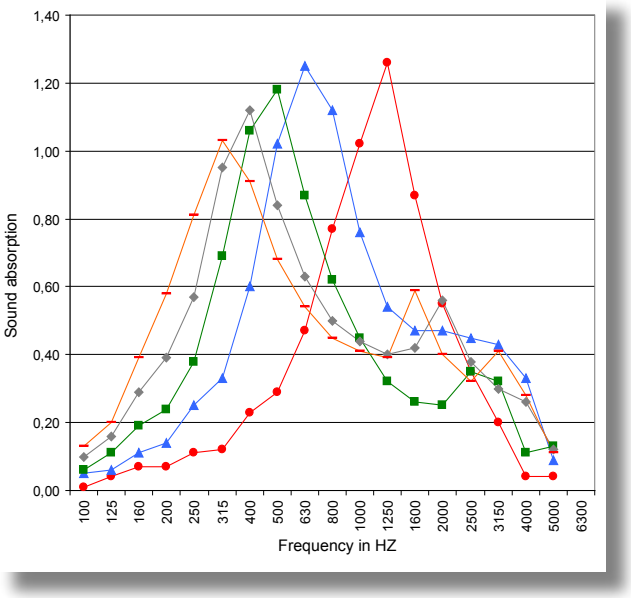
Sound Absorption

Results obtained using the reverberant field testing method:

	10 mm	20 mm	30 mm	40 mm	50 mm
	—●—	—▲—	—■—	—♦—	—I—
100 Hz	0.01	0.05	0.06	0.10	0.13
125 Hz	0.04	0.06	0.11	0.16	0.20
160 Hz	0.07	0.11	0.19	0.29	0.39
200 Hz	0.07	0.14	0.24	0.39	0.58
250 Hz	0.11	0.25	0.38	0.57	0.81
315 Hz	0.12	0.33	0.69	0.95	1.03
400 Hz	0.23	0.60	1.06	1.12	0.91
500 Hz	0.29	1.02	1.18	0.84	0.68
630 Hz	0.47	1.25	0.87	0.63	0.54
800 Hz	0.77	1.12	0.62	0.50	0.45
1000 Hz	1.02	0.76	0.45	0.44	0.41
1250 Hz	1.26	0.54	0.32	0.40	0.39
1600 Hz	0.87	0.47	0.26	0.42	0.59
2000 Hz	0.55	0.47	0.25	0.56	0.40
2500 Hz	0.35	0.45	0.35	0.38	0.32
3150 Hz	0.20	0.43	0.32	0.30	0.41
4000 Hz	0.04	0.33	0.11	0.26	0.28
5000 Hz	0.04	0.09	0.13	0.12	0.11



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