

Technical Data Sheet

Hanno®-Tect AL



Product description

Hanno®-Tect AL is an open-pored melamine resin foam which is laminated with a coarse-grained aluminium foil.

Material structure:

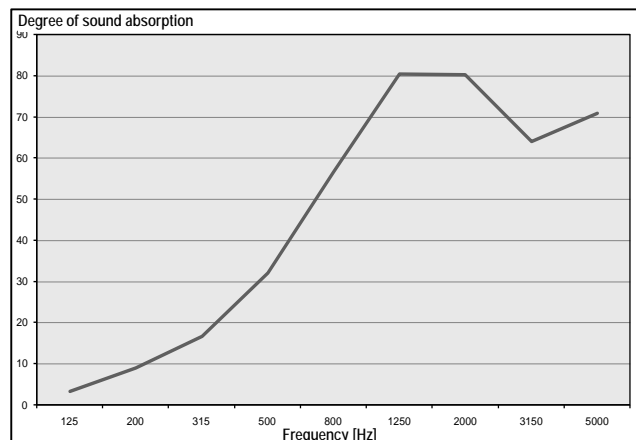
Density: depending on the structure

Melamine resin foam 10–60mm

Coarse-grained aluminium foil 50µm

Product properties

- high level of temperature resistance
- low thermal conductivity
- favourable fire behaviour
- good chemical resistance
- low apparent density
- excellent sound absorption property



Form of delivery

- blanks, stampings
- self-adhesive
- available in thicknesses of between 5 and 480mm

Handling

Only adhere to dry, fat-free and clean substrates. Press on well. The contact pressure which is required for full-surface contact has to be ensured. Processing temperature: 18 – 25°C

You can easily adapt the material and cut it to size with a sharp knife.

Special Instructions

The sorption behaviour of the melamine resin in connection with the open-cell nature of the foam result in a change being made to the humidity content of the material depending in the ambient conditions. This comprises dimension changes of around $\pm 2\%$ (on the basis of the mean humidity content). This behaviour is to be taken into account during processing (pre-storage of the components in an application-related climate).

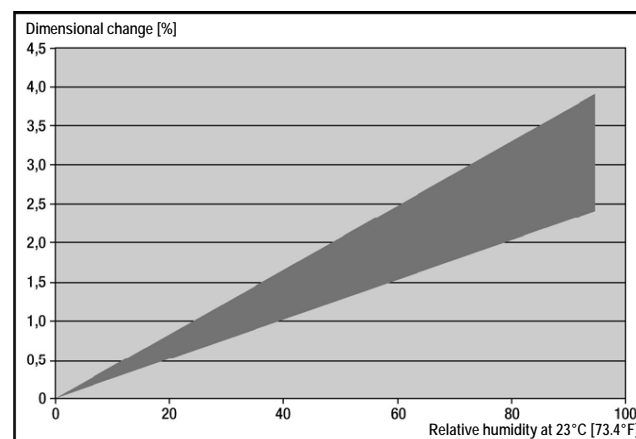


Diagram: Dimensional change depending on the air humidity with an ambient temperature of 23°C

Due not use Hanno®-Tect AL outside/outdoor exposure. The Tect material has a mixed pore structure for manufacturing reasons. A maximum of 10 pores per m² with a diameter of between 5 and 15 mm can occur and do not give cause for complaint.

If required, the material can be rendered hydrophobic and oleophobic by it being impregnated → Hanno®-Tect-o-phob

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Colour		grey, surface: aluminium
Fire behaviour	CEN/TS 45545-2:2009: ISO 5660-1 ISO 5659-2 ISO 5658-2 DIN 5510-2 DIN 54837 ISO 5659-2 FMVSS 302	CUR* 10mm: MAHRE = 2.52 kW/m ² (10/0524) 50mm: MARHE = 1.31 kW/m ² (10/0523) 11mm: CIT4&8 <0,01, Dsmax=0,1 (10/0548) 27mm: CIT4&8 <0,01, Dsmax=0,4 (10/0549) 10mm: CFE > 40 kW/m ² (10/0687) 25mm: CFE > 40 kW/m ² (10/0688) RST* S4, SR2, ST2 (P60-12-0649-5mm, P60-12-0650-50mm) FED = 0,01 (P60-14-3239) SE
Maximum application temperature	DIN EN ISO 2578 (nach DIN ISO 3386-1)	150°C
Bulk density	DIN EN ISO 845	9 +2/-1 kg/m ³
Thermal conductivity	DIN EN 12667	< 0,035 W/mK (10°C, d = 50mm)
Low temperature stability		-40°C (glued)

* RST: Rail Vehicle Testing Agency, Henningsdorf, CUR: Currenta GmbH & Co Brandtechnologie

Environment and Disposal

Hanno®-Tect AL wird ohne Verwendung von halogenhaltigen Kohlenwasserstoffen hergestellt. Das Produkt ist nicht wassergefährdend. Hanno®-Tect AL ist bei der Auslieferung treibmittelfrei und nach der Gefahrstoffverordnung nicht kennzeichnungspflichtig.

Safety Instructions

In view of the existing data and experience, the product is not hazardous material in the meaning of the Hazardous Material Regulations and the corresponding EC directives. We recommend however that you take the same care and use the same hygiene as is customary with working materials. Suitable measures are to be taken in order to ensure that the result dust is not inhaled.

Restriction of liability

Our General Terms and Conditions of Sales with the warranty conditions which you can refer to at www.hanno.com, apply. This data sheet provides non-binding information without the assurance of guarantee. The stipulated instructions for use are to be adapted to the given conditions. The user is obligated to validating the suitability and application possibility of the product by testing it himself, so as to avoid failures for which we assume no liability. The right to make technical changes is reserved. You can request the latest version of this datasheet from info@hanno.com.