

Technical Data Sheet

Hanno[®]-Tect

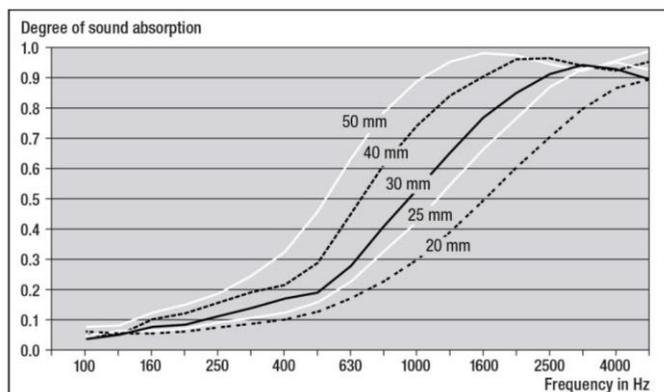


Product description

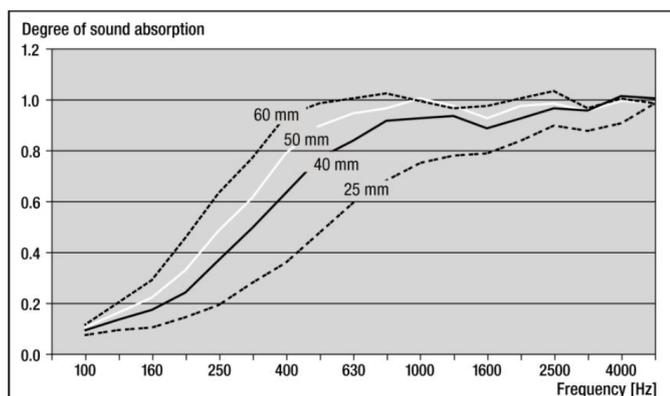
Hanno[®]-Tect is an open-celled foam made of melamine resin.

Product properties

- high level of temperature stability
- low thermal conductivity
- good fire behaviour, flame-retardant
- good chemical resistance
- low apparent density
- excellent sound absorption properties



Sound absorption in the impedance tube according to ISO 10534-2



Sound absorption in the reverberation chamber according to EN ISO 354

Form of delivery

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

Handling

Only adhere it to dry, grease-free, clean substrates. Press the surface areas on well. You can easily adapt the material and cut it to size with a sharp knife.

Special Instructions

The sorption behaviour of the melamine resin together with the open cells of the foam result in a change to the moisture content of the material, subject to the environmental conditions. These include dimensional changes of $\pm 2\%$ (based on the mean moisture content). This behaviour must be taken into account during use (pre-storage of the components in an application-related climate).

Tect is not for outside use or when subjected to weather conditions. The gray colour is not resistant to ultraviolet radiation; colour differences are possible. The product has a manufacturing-related mixed pore structure. Up to 10 pores per m² with a diameter of between 5 and 15 mm can occur per m² 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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Technical Data

Colour		grey	
Fire behaviour	EN 45545	HL2, Exova*	
	DIN 4102-1	B1	
	FMVSS 302	SE	
	UL94	V / HF1	
Maximum application temperature	DIN EN ISO 2578	1000 h	200 °C
	(defined with ISO 844)	20000 h	150 °C
Bulk density	DIN EN ISO 845	9 +-1,5 kg/m ³	
Thermal conductivity	DIN EN 12667	< 0,035 W/mK (10°C)	
Degree of sound absorption	DIN ISO 10534	≥ 90% (d = 50mm, f = 2000Hz)	
Residual compression set	DIN EN ISO 1856	5 – 30% (22 h, 70 °C, 50%)	
Tensile strength	DIN ISO 1798	> 120 kPa	
Elongation at break	DIN ISO 1798	> 18%	
Compression hardness	DIN EN ISO 3386-1	>9 kPa	
Storage life		9 months **	

* Exova: Exova Warringtonfire, Frankfurt, ** in original (or equivalent) package, 5-30°C, dry, protected from ultraviolet radiation and weather

Chemical Resistance

The crush resistance pursuant to ISO 3386-1 (40% crushing, 4th load cycle) serves as the evaluation criteria. The information is valid for a test temperature of 23°C.

Medium	Evaluation	Medium	Evaluation	Medium	Evaluation
Alcohols		Acids		Alkaline Solutions	
Butyl alcohol	+	Formic acid 90%	-	Ammonia liquor 25%	+
Ethyl alcohol	+	Ethanoic acid 90%	+	Sodium carbonate 25%	+
Glycol	+	Lactic acid 10%	+	Caustic soda 40%	+
Glycerine	+	Phosphoric acid 50%	-	Other Chemicals	
Isopropyl alcohol	+	Nitric acid 10%	-	Sodium hypochlorite solution	-
Methyl alcohol	+	Hydrochloric acid 10%	-	Sodium chloride solution	+
		Sulphuric acid 10%	-	Water	+
		Citric acid 10%	+	Hydrogen peroxide 30%	-

Medium	Evaluation	Medium	Evaluation	Medium	Evaluation
Hydrocarbons		Esters		Other Solvents	
Petrol	+	Butyl acetate	+	Glykol ether	+
Diesel	+	Ethyl acetate	+		
Kerosene	+	Ketones			
		Acetone	+		

Environment and Disposal

Tect is manufactured without using hydrocarbons which contain halogen. The product does not pose a risk to water. Tect does not contain any propellants when delivered and is not subject to labelling pursuant to the German Hazardous Substances Ordinance.

Tect waste can be thermally and materially recycled. Pure bonded foams with densities of between 25 and 100 kg/m³ have an excellent sound absorption in lower and medium frequency ranges.

Loose flock fillings have already been successfully applied to the cavities of intermediate ceilings with the objective of improving their acoustic properties.

Basotect[®] flocks have also already been used as a binding agent for liquids.

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.