



Product data sheet

TIMax® GF10, glass fiber insulation

08.04.2022

TIMax® GF10 is a light-permeable glass fiber mat with an elastic fiber structure and with a raw thickness of approx. 10cm, which can be used as an insulation material in membrane roofs and skylights. It serves as a light-scattering insulating insert. Due to the white-translucent fiber structure, a part of the sun's radiation is reflected outwards, thereby improving the g-value (protection against overheating). The remaining part is conveyed inwards as scattered light and causes uniform illumination by daylight.

Due to the light scattering qualities of the TIMax® glass fiber insulation inserts a glare-free and even room illumination is achieved.

TIMax® GF10 is temperature-stable up to 100 and insensitive to humidity.

The glass fiber material is very light and compressible, but still dimensionally stable.

Delivery takes place as rolled goods (roll size: approx. 30,5m x 2,1m x 10cm).
Material can be cut to smaller width at our factory, tolerance range is -0,4cm/+2,0cm.

Technical data of light transmitting insulation TIMax® GF10

	TIMax® GF10	
Thickness	approx. 100mm, compressible	
Thermal conductivity λ (W/m 2 K $^{-1}$)	100mm (raw thickness): 80mm (compressed): 60mm (compressed):	0,113 ± 0,008 * 0,099 ± 0,005 * 0,081 ± 0,005 *
U-value (W/m 2 K $^{-1}$)	100mm (raw thickness): 80mm (compressed): 60mm (compressed):	0,95 ** 1,02 ** 1,09 **
Light transmittance	0,36 *	
material	glass fiber / binder	
density	approx. 5 kg/m 3	
flammability	B1, hardly flammable ***	
colour	white translucent	
temperature resistance	100°C	

* tested values, ZAE Bayern, 2022

** calculated with standard values for internal and external heat transfer coefficients, ZAE Bayern, 2022

*** tested value, MPA Erwitte, 2022

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Specifications of delivery:

Fiber type: glass fibers

colour: colourless/white

Production variations can lead to the following material differences and cannot be 100% excluded (up to 30% oft he material can be affected):

Impurities: $\leq 1\text{mm}^2$: is not considered as impurity/soiling,
 $\leq 4\text{mm}^2$: 6x/10 linear meters,
 $\leq 9\text{mm}^2$: 3x/10 linear meters,
 $\leq 25\text{mm}^2$: 1x/10 linear meters.

Waviness of surface: continuous waves/ripples up to 10mm height,
Waves/ripples in peripheral areas up to 15mm height.

surface: Isolated loose fibers,
Bonded fiber strands up to 2mm width with a length of max. 30cm,
Glass droplets/splinters.

weight: weight tolerances from -5% to +20%

General information:

Rolls have to be stored dry.

Storage temperature: 15 to 25°C.

Humidity during storage: 30% to 70% r. F.

Storage time: max. 12 months from delivery date.

The disposal has to be carried out in accordance with the country specific provisions.

Safety instructions:

TIMax® GF10 glass fiber mats may contain glass splinters – wear stab-resistant gloves.

Avoid contact with skin and eyes - use safety glasses and long-sleeved, closed work clothes. Contact with skin and eyes can lead to mechanical irritations, Rinse eyes with water repeatedly to flush out glass fibres and wash affected areas of skin with water and soap to remove glass fibers. If the irritation persists, consult a doctor.

When cutting TIMax® GF10 glass fiber mats glass dust can be set free. After inhaling larger amounts of dust, go to the fresh air. If irritation or inflammation persists, consult a doctor.