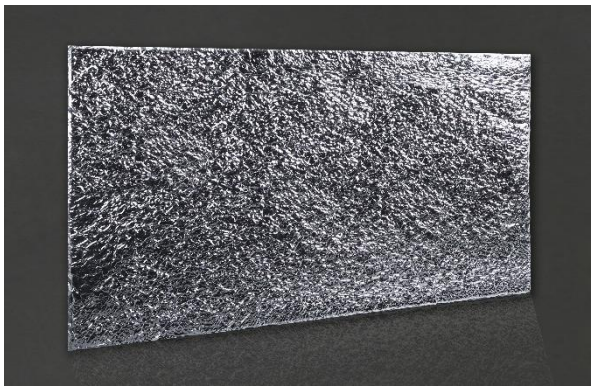
VAKUISOTHERM©

Technical Data Sheet

vakuVIP Flex



Description:

- Ultra-high-performance insulation due to low density and lowest thermal conductivity
- Freely formable vacuum insulation panel
- Non-combustible core material – fire protection class A1

Advantages:

- **Very good thermal insulation** due to low thermal conductivity
- **Space-saving** due to thin design
- **Environmentally friendly and safe for health**:
  - Ecological and sustainable product through 100% recyclability of the core material
  - Contains no toxic or hazardous substances
  - Contains no glass fibers
- **Customizable:** flexible for many shapes and available in various sizes to meet individual requirements
- **Durability**: resistant to aging and moisture

Applications:

- **Insulation of heating elements and heat storage tanks**
- **Insulation of pipelines**
- **Insulation of curved walls and roofs**
- **Insulation for transport and storage facilities,** e.g., refrigerators, freezers, cold rooms, and thermal boxes
- and many other applications

Dimensions and Tolerances:

Length* / Width* [mm]	***Tolerances***		***Thickness* [mm]***	**Tolerance Thickness* [mm]**
	Length* [mm]	***Width* [mm]***		
150 - 500	± 10	± 10	10 - 30	+2 / -2
501 - 1100	± 2%	± 2%	10 - 30	+2 / -2
1101 – 2700	± 2%	---**	10 - 30	+2 / -2

** deviating dimensions available on request*

***max. Width 1100 mm*

Due to the special manufacturing method, the thickness slightly decreases towards the edges and corners compared to the center of the panel.

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Performance Characteristics:

Density	150 to max. 180 kg/m³ according to DIN EN 1602
Weight	approx. 3 kg/m² at 20 mm thickness
Thermal conductivity λ_{10}-value	≤ 0,0040 W/(m*K) initial value before aging at an internal pressure under 5 mbar (measurement value according to DIN EN 12667)
Temperature resistance	-50 to +100°C / -58 to +212°F briefly up to +130°C / 266°F for about 30 min
Service life	under dry conditions (relative humidity < 60%) and temperatures between 5°C – 30°C, up to 50 years depending on the application
Delivery form	packed in cartons on pallets
Safety Instructions	According to the manufacturer, the core is not a hazardous substance according to Regulation (EC) 1272/2008.

Application Restrictions:

The composite foil of the vakuVIP elements must not be damaged by drilling, cutting, milling, nailing, screwing, or impacting sharp edges, etc. Damage to the foil will result in an increase in the internal pressure of the panels, leading to the loss of vacuum and their excellent thermal insulation properties. The thermal conductivity in the vented state is approximately 0.020 W/(m*K).

Please refer to our processing instructions included with the product upon delivery.

Contact Informationen

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