

## **Product data sheet:**

### **flexVIP**

#### **Description:**

- Free formable vacuum insulation panel with low density and low thermal conductivity
- Non-burnable core material - fire protection classification A1

#### **Advantages:**

- Extremely low thermal conductivity
- Flexible fit to many shapes
- Reduced space requirement
- Ecologic footprint (full recycling of the core material)
- Long-life cycle

#### **Range of Application:**

- Insulation of heating elements and heat storage vessels
- Insulation of pipes
- Insulation of curved walls and roofs
- Insulation for transport and storage applications like refrigerators, cold rooms, shippers

## Dimensions:

<b>Dimensions</b> Max. Length* Max. Width* Thickness*	<b>2700 mm</b> <b>1100 mm</b> <b>10 - 30 mm</b>
<b>Tolerances / mm</b> Length / Width 150-500 Length/Width 501 - 2700* Thickness	+/- 10 mm +/- 2% +/- 2 mm

\* custom dimensions and tolerances available on request

\*\* due to the special manufacturing method the thickness will be lower at the edges and corners compared to the centre of the panel. The Thickness strongly depends on the width and length.

## Characteristics:

• Density	150 to 180 kg/m <sup>3</sup>
• Weight	Approx. 3 kg/m <sup>2</sup> for 20 mm thickness
• Heat conductivity ( $\lambda$ -value)	< 0,004 W/(m*k); < 0,0035 W/(m*k) available on request; during the process of aging, the internal pressure will rise from 1mbar to 5mbar and average temperature of 10°C
• Thermal stability	-50 to +100°C / -58 to +212°F momentary (30 min) up to +130°C / 266°F
• Form of delivery	Packed in boxes, on pallets
• Safety advice	According to supplier and guideline 91/155/EEC, the core is no hazardous material. It does not release any hazardous decomposition products and is no threat to them human health – current knowledge.

## Restrictions:

The high-barrier-laminate used for vakuVIP-products shall not be damaged by drilling, cutting, grinding, nailing, milling or bumping on sharp edges. Damaging the laminate will lead to a rapid increase of internal pressure and rapid decrease of the vacuum inside of the panel. The thermal conductivity value will rise to nearly 0,020 W/m<sup>2</sup>K in a non-vacuum-state.