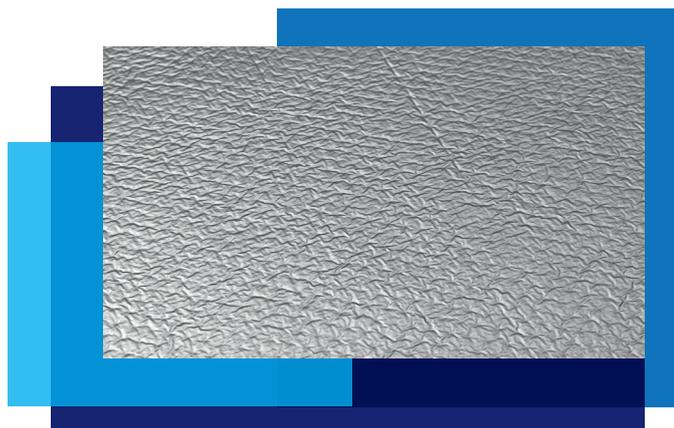


# Promat

## ULTIMA<sup>®</sup> VIP

Vacuum insulated panel



### Product description

ULTIMA<sup>®</sup> VIP from Promat are high performance microporous insulation panels covered in an impermeable polymer outer envelope which is heat sealed under vacuum to optimise the thermal performance.

The core of the ULTIMA<sup>®</sup> VIP panel insulation is a blend of filament reinforced silica and an opacifier.

The outer envelope is an ultra-low permeation barrier film that comprises multiple metalised polymer layers. Exact barrier film specification may vary according to the application.

### TECHNICAL DATA

Brand		ULTIMA <sup>®</sup> VIP
Thermal conductivity (ASTM C518 & ISO 8301 at 10 °C)	mW/mK	4.20 (centre of panel)
Internal pressure	mbar	<5
Aging (increase in pressure)	mbar/year	1 (at ambient temperature)
Temperature range	°C	-50 up to +80 (limited barrier foil)
Density	kg/m <sup>3</sup>	160 - 210
Compressive strength	MPa	0.15 - 0.20
Thermal conductivity (declared $\lambda$ -value) (ETA 13/1026 conform EAD 040011-00-1201)	mW/mK	5.87
- R-value for 20 mm thickness	m <sup>2</sup> K/W	3.40
- R-value for 40 mm thickness	m <sup>2</sup> K/W	6.81

### PRODUCT DIMENSIONS & STANDARD SIZES \* \*\*

Length [mm]	Width [mm]	Thickness [mm]
1300	600	10-50
1200	600	
1000	600	
600	600	
600	500	
600	400	
600	200	
400	300	

### PRODUCTION TOLERANCES \*\*

	Length [mm]	Width [mm]	Thickness [mm]	
≤ 1000	+1/-4	+1/-4	< 20	+/-1
			20 - 30	+1/-2
> 1000	+1/-6	+1/-6	> 30 - 40	+1/-3

\* These are the standard sizes. Other sizes are available on request.

\*\* These typical product characteristics are applicable for production runs of minimal 200 pieces.

### Properties & advantages

- Very low TC value of 4.2 mW/m K (centre of panel)
- High R-value (3.40 m<sup>2</sup>K/W per 20 mm)
- Lightweight & thinnest insulation available
- No need for getter material
- Stable long term thermal performance
- Environmentally safe, constrains no respirable fibres
- Excellent resistance to compression

### Typical applications

- Building:
  - Roof & terrace insulation
  - Interior wall insulation
  - External facade insulation
  - Floor insulation
  - Cold rooms
  - Doors
  - Thermal bridges
- Refrigerators and freezers
- Temperature controlled packaging
- Refrigerated transport
- Hot water boilers

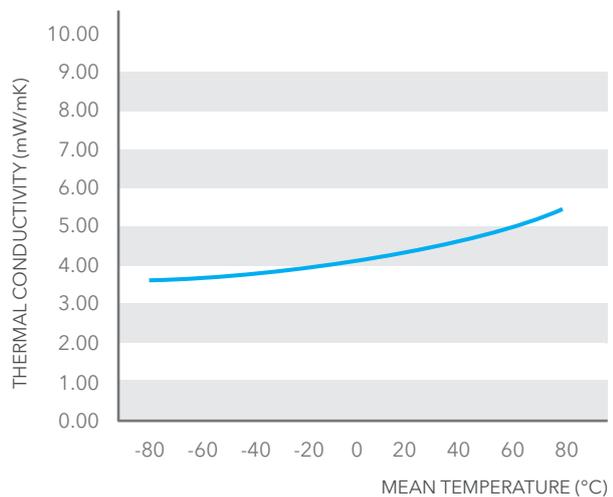
### ULTIMA® VIP

**Promat ULTIMA® VIP** core material is non-combustible and complies to the requirements of DIN4102. It is environmentally safe and completely recyclable.

### Standard finish styles

ULTIMA® VIP are rectangular vacuum insulation panels that are as standard size delivered with straight edges and glued flanges.

### Conductivity graph



All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any liability, our delivery and payment terms apply exclusively. Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid. © Copyright Etex NV, Brussels, Belgium. All rights reserved. 2022-04

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