

Technical Data Sheet

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KV[®] 3

*...Hightech-Insulation Material
for extreme loads*

Product Specification

KV[®] 3 is an exceptional thermosetting plastic, reinforced with glass fibres. The combination of high-class raw materials grants KV[®] 3 a special position among the thermal insulating materials.

Special Material Characteristics

- **outstanding high compression and flexural strength**
- **high long term temperature resistance**
- **exceptional dimensional stability due to very low setting behaviour**
- **excellent insulation effect**

Range of Application

The High-tech Quality KV[®] 3 combines an excellent insulation capability with an outstanding dimensional stability under extreme stresses and strains.

In many applications the High-tech Quality KV[®] 3 is used as heat protection shield combined with other thermal insulations.

Technical Data*:

Max. service temperature		
• long-term	250	°C
• short-term	280	°C
Compressive strength**		
• at ambient temperature	700	N/mm ²
• at 200 °C	500	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.25	W/mK
• at 200 °C	0.30	W/mK
Linear coefficient X- and Y-direction Z-direction	11·10 ⁻⁶ 80·10 ⁻⁶	1/K
Flexural strength		
• at ambient temperature	600	N/mm ²
• at 200 °C	350	N/mm ²
Density	2	g/cm ³

*) Further technical details and machining recommendations upon request

**) Compressive stress at break. The possible specific compressive strength depends on the particular application.



Delivery information:

Standard thickness: 5 - 32 mm

Premium-Finish is possible:

// 0.02 mm by nominal thickness tolerance of +/- 0.02 mm (depending on the thickness)

Specifications are subject to alteration due to technical development. The standard values given in this data sheet are not part of any contract.