

# Technical Data Sheet

# GL<sup>®</sup> P

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replaces edition 12/19

*...High-tech Insulation material  
for extreme loads*

## Product Specification:

GL<sup>®</sup> P is based on inorganic materials and a high temperature polymer.

## Special Material Characteristics:

- very high continuous usage temperature
- very high compressive strength
- excellent insulation effect
- non-flammable

## Typical Applications:

- heated hydraulic presses
- punch units
- glass making industry
- welding plants
- extrusion dies

GL<sup>®</sup> P offers a higher long term temperature resistant as other glass fibre reinforced thermosetting material. Compared to fibre cement materials GL<sup>®</sup> P can be used for applications with higher mechanical loads and changes of load.

The parts made of GL<sup>®</sup> P must be firmly clamped and the whole surface must be loaded.

## Technical data\*:

Max. service temperature		
• long-term	500	°C
• short-term	800	°C
Compressive strength**		
• at ambient temperature	330	N/mm <sup>2</sup>
• at 200 °C	240	N/mm <sup>2</sup>
Coefficient of thermal conductivity		
• at ambient temperature	0.31	W/mK
• at 200 °C	0.37	W/mK
Linear coefficient X- and Y-direction Z-direction	10·10 <sup>-6</sup> 83·10 <sup>-6</sup>	1/K
Flexural strength		
• at ambient temperature	120	N/mm <sup>2</sup>
• at 200 °C	100	N/mm <sup>2</sup>
Density	2.1	g/cm <sup>3</sup>

\*) 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: 2 - 80 mm

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