

Technical Data Sheet

GL[®] M

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

Product Specification:

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

The parts made of GL[®] M must be firmly clamped and the whole surface must be loaded.

Technical data*:

Max. service temperature		
• long-term	400	°C
• short-term	600	°C
Compressive strength**		
• at ambient temperature	400	N/mm ²
• at 200 °C	250	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.30	W/mK
• at 200 °C	0.35	W/mK
Linear coefficient		
X- and Y-direction	10·10 ⁻⁶	1/K
Z-direction	170·10 ⁻⁶	
Flexural strength		
• at ambient temperature	200	N/mm ²
• at 200 °C	50	N/mm ²
Density	2.1	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.



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

Delivery Information:

Standard thickness: 2 - 80 mm