

Technical Data Sheet

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BRA-GLA® SI

...Hightech-Insulation material
for extreme loads

Product Specification

The High-tech Quality BRA-GLA® SI is a thermo-setting plastic, reinforced with glass fibres. The combination of high-class raw materials grants BRA-GLA® SI a special position among the thermal insulating materials.

Special Material Characteristics

- **very high continuous usage temperature**
- **excellent insulation effect**
- **high compressive strength**
- **exceptional dimensional stability**

Range of Applications

The High-tech Quality BRA-GLA® SI offers a unique high temperature resistance than other thermosetting insulation materials. BRA-GLA® SI is used in applications which are characterized by extreme high temperatures and high mechanical loads.

Typical Applications:

- Piston- and frame insulation in heated Presses
- Pressure plate insulation in heated moulds and tools

Technical data*:

Max. service temperature		
• long-term	280	°C
• short-term	350	°C
Compressive strength**		
• at ambient temperature	450	N/mm ²
• at 200 °C	180	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.22	W/mK
• at 200 °C	0.26	W/mK
Linear coefficient		
X- and Y-direction	$8 \cdot 10^{-6}$	1/K
Z-direction	$180 \cdot 10^{-6}$	
Flexural strength		
• at ambient temperature	120	N/mm ²
• at 200 °C	37	N/mm ²
Density	1.83	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: 3 - 30mm
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.