

## Technical Data Sheet

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# S 4000<sup>®</sup> HT

... compression proofed and high insulating

### Product Specification

The grade S 4000<sup>®</sup> HT is a thermosetting plastic, reinforced with glass fibres. The unique composition grants outstanding insulation capability combined with an excellent mechanical and thermal strength.

### Special Material Characteristics

- long-term temperature resistance
- exceptionally good insulation effect
- high compressive strength

### Range of Applications

S 4000<sup>®</sup> HT is used as thermal insulating board or as mechanical part for heated presses and tools in the plastics-, rubber- and wood processing industry.

In comparison to other glass fibre reinforced plastics, S 4000<sup>®</sup> HT allows, the use of significantly less insulation thicknesses to reach the desired insulation effect.

Compared to the Quality S 4000<sup>®</sup> the S 4000<sup>®</sup> HT provides a higher temperature and pressure resistance.

### Technical Data\*:

Max. service temperature		
• long-term	230	°C
• short-term	250	°C
Compressive strength**		
• at ambient temperature	450	N/mm <sup>2</sup>
• at 200 °C	200	N/mm <sup>2</sup>
Coefficient of thermal conductivity		
• at ambient temperature	0.13	W/mK
• at 200 °C	0.16	W/mK
Linear coefficient		
X- and Y-direction	21·10 <sup>-6</sup>	1/K
Z-direction	180·10 <sup>-6</sup>	
Flexural strength		
• at ambient temperature	200	N/mm <sup>2</sup>
• at 200 °C	120	N/mm <sup>2</sup>
Density	1.4	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: 6 - 25 mm  
Premium-Finish is possible up to a nominal thickness of 10 mm:  
// 0.02 mm by nominal thickness tolerance of +/- 0.02 mm  
(depending on the thickness)

You may recognize a certain amount of air bubbles in the product which may occur as small cavities after the grinding process. These bubbles are typical for this product and don't constitute a reduction in quality.

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