

Technical Data Sheet

S 4000[®]

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... compression proofed and high insulating

Product Specification

The grade S 4000[®] 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[®] is used as thermal insulating board or as mechanical part for heated presses and tools in the plastics-, rubber- and wood processing industry.

S 4000[®] offers significant advantages compared to inorganic brittle insulation materials. In comparison to other glass fibre reinforced insulation materials S 4000[®] offers the same insulation effect with distinctly lowered insulation thickness.

Technical Data*:

Max. service temperature		
• long-term	210	°C
• short-term	250	°C
Compressive strength**		
• at ambient temperature	300	N/mm ²
• at 200 °C	100	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.12	W/mK
• at 200 °C	0.16	W/mK
Linear coefficient		
X- and Y-direction	28·10 ⁻⁶	1/K
Z-direction	200·10 ⁻⁶	
Flexural strength		
• at ambient temperature	200	N/mm ²
• at 200 °C	60	N/mm ²
Density	1.35	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 - 30 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

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