

Technical Data Sheet

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XGD[®] 80

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

Product Specification

XGD[®] 80 is an exceptional thermosetting plastic with a high proportion of reinforcement. High-quality raw materials and a new innovative reinforcement structure give XGD[®] 80 its outstanding properties compared to conventional insulation laminates.

Special Material Characteristics

- **extreme high compression strength and long term temperature resistance**
- **exceptional dimensional stability due to very low setting behaviour**

Range of Application

XGD[®] 80 combines an effective insulation capability with a high dimension stability under high stresses and strains. This makes XGD[®] 80 particularly suitable for applications which need very high demands on process reliability.

Technical Data*:

Max. service temperature		
• long-term	250	°C
• short-term	280	°C
Compressive strength**		
• at ambient temperature	750	N/mm ²
• at 200 °C	500	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.25	W/mK
• at 200 °C	0.35	W/mK
Linear coefficient		
X- and Y-direction	11 · 10 ⁻⁶	1/K
Z-direction	60 · 10 ⁻⁶	
Flexural strength		
• at ambient temperature	500	N/mm ²
• at 200 °C	300	N/mm ²
Density	2	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:
// 0.02 mm by nominal thickness tolerance of +/- 0.02 mm
(depending on thickness)

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