

Technical Data Sheet

XGD[®] 15

... Hightech – Insulation material

02/2020
replaces edition 07/16

Product Specification

XGD[®] 15 is a thermosetting high-temperature plastic with air chambers on one side.

Special Material Characteristics

- **high continuous usage temperature**
- **excellent insulation effect**
- **high mechanical strength**

Range of Applications

This insulation material was especially developed for the use as exterior insulation of tools and moulds. The structured side must be installed on the hot side. This generates additional air chambers which reduce energy losses by convection and radiation. In addition to shorter heating-up times, the optimization of the process and the safety of the operator the use of a special outside insulation material is recommended.

Furthermore the XGD[®] 15 shows a high basic strength that avoids damages or destruction by shock loads during the handling or installation of tools.

XGD[®] 15 is easy to clean due to it's smooth surface.

Technical Data*:

Max. service temperature		
• long-term	200	°C
• short-term	220	°C
Compressive strength**		
• at room temperature	250	N/mm ²
• at 200 °C	80	N/mm ²
Coefficient of thermal conductivity		
• at room temperature	0.12	W/mK
• at 230 °C	0.16	W/mK
Linear expansion coefficient		
X- and Y-direction	25·10 ⁻⁶	1/K
Z-direction	150·10 ⁻⁶	
Moisture absorption / 24 h	<1	%
Density	1.70	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.



Mounting

In the most cases a mounting directly on the surface of the machine or tool is recommendable.
(The structured side must be installed to the hot-side)

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: 6 + 10 mm
Thickness tolerance: +/-1 mm