

TECHNICAL DATA OVERVIEW

DOTEC® 280

Material Description	Composite material consisting of resin-bonded glass fibers and fillers
Colour	beige
Uses	Thermal Insulation Components for Mechanical and Industrial Engineering Moldable Components
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,9
Water absorption	ISO 62 Standard	%	0,1

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	280
Application temperature, short-term	–	°C	300
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	20
Thermal conductivity	DIN 52612	W/mK	0,28

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	150
Compressive strength at 250 °C	ISO 604 Standard	N/mm ²	130
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	30
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm ²	6000

Last Updated: 11/2014

The values shown were determined on standard specimens. The material properties may differ from these values depending on the application and the geometry of the component.

Our consulting engineers and technicians are at your disposal to clarify the exact suitability of the material.