

**TECHNICAL DATA OVERVIEW**

# DOTEC® 350

<b>Material Description</b>	Composite material consisting of a temperature-resistant binder and low thermal conductivity fillers
<b>Colour</b>	green
<b>Uses</b>	Thermal and electrical insulating components for mechanical and plant engineering
<b>Availability</b>	Panels, blanks and components/assemblies according to drawings

## Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm <sup>3</sup>	0,9
Water absorption	ISO 62 Standard	%	0,8

## Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	350
Application temperature, short-term	–	°C	400
Coefficient of linear expansion	DIN 51045	10 <sup>-6</sup> x K <sup>-1</sup>	40
Thermal conductivity at 200 °C	DIN 52612	W/mK	0,12

## Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm <sup>2</sup>	38
Modulus of elasticity from a pressure test at 23 °C	ISO 604 Standard	N/mm <sup>2</sup>	1150
Compressive strength at 250 °C	ISO 604 Standard	N/mm <sup>2</sup>	25
Modulus of elasticity from a pressure test at 250 °C	ISO 604 Standard	N/mm <sup>2</sup>	890
Flexural strength at 23 °C	ISO 178 Standard	N/mm <sup>2</sup>	20
Modulus of Elasticity of Flexural Test at 23 °C	ISO 178 Standard	N/mm <sup>2</sup>	4500

## Electrical properties

Properties	Test Standard	Unit	Value
Dielectric strength (+)	IEC 243-1	KV/3 mm	20
Dielectric strength (  )	IEC 243-1	KV/25 mm	30

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.