

**TECHNICAL DATA OVERVIEW**

# DOTEC® 280 HF

<b>Material Description</b>	Thermosetting high-performance plastic
<b>Colour</b>	Chestnut
<b>Application</b>	Machine components subject to high thermal stress with good chemical resistance
<b>Availability</b>	Blanks, round bars and components according to drawings

## Mechanical and physical properties

Properties	Test Method/Test Standard	Unit	Value
Flexural strength	DIN EN ISO 178	Mpa	178
Compressive strength at 23 °C	DIN EN ISO 604	Mpa	420
Specific gravity	-	g/cm <sup>3</sup>	1,3
Water absorption	DIN EN ISO 62	%	1,7

## Thermal properties

Properties	Test Method/Test Standard	Unit	Value
Continuous application temperature	-	°C	280
Application temperature for a short period of time (at low load)	-	°C	380
Thermal conductivity	DSC	S/m x K	0,2
Coefficient of linear expansion	DIN 51045	10 <sup>-6</sup> x K <sup>-1</sup>	68

## Electrical properties

Properties	Test Method/Test Standard	Unit	Value
Electric Dielectric Strength	DIN IEC 60243-1	kV/mm	20
Fire protection class	UL 94	-	V0

Last updated: 04/2018