

**OVERVIEW TECHNICAL DATA**

# HGW 2370.4

## EP GC 205

### G 11

<b>Product description</b>	Engineered composite material made of resin-bound glass fabric (with strong roving tissue)
<b>Main applications</b>	Electrical and thermal insulation parts for machine engineering and process industry
<b>Delivery program</b>	Sheets, panels and highly precise machined parts and finished components

#### Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm <sup>3</sup>	2
Water absorption	ISO 62	%	0,3

#### Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	IEC 216	°C	180

#### Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm <sup>2</sup>	550
Flexural strength at 23 °C	ISO 178	N/mm <sup>2</sup>	470
Modul of elasticity	ISO 178	N/mm <sup>2</sup>	21000
Tensile strength	ISO 527	N/mm <sup>2</sup>	320
Shear strength (parallel to the layer)	EN 60893	N/mm <sup>2</sup>	50

#### Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	-	CTI 200
Permittivity	DIN 53483	-	4,5
Electrical insulation resistance after immersion in water	IEC 167	Ω	2 x 10 <sup>10</sup>
Electric strength (I)	IEC 243-1	KV/3 mm	45
Electric strength (II)	IEC 243-1	KV/25 mm	60
Fire protection class	UL 94	-	-

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The standard values shown in this data sheet are measured by standard test methods. Depending on operation terms and dimensions the material properties can differ from these values.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.