

**OVERVIEW TECHNICAL DATA**

**HGW 2372.1**  
**EP GC 202**  
**FR-4**

<b>Material description</b>	Epoxy resin glass hard fabric
<b>Uses</b>	Electrical insulating components with special fire protection requirements
<b>Availability</b>	Panels, blanks and components/assemblies according to drawings

**Physical properties**

Properties	Test standard	Unit	Minimum
Density	ISO 1183	g/cm <sup>3</sup>	1,85
Water absorption	ISO 62	%	0,16

**Thermal properties**

Properties	Test standard	Unit	Minimum
Limit temperature	IEC 216	°C	155

**Mechanical properties**

Properties	Test standard	Unit	Minimum
Compressive strength at 23 °C	ISO 604	N/mm <sup>2</sup>	350
Flexural strength at 23 °C	ISO 178	N/mm <sup>2</sup>	340
Modulus of elasticity from bending test	ISO 178	N/mm <sup>2</sup>	24000
Tensile strength	ISO 527	N/mm <sup>2</sup>	300
Shear strength parallel to the layer	EN 60893	N/mm <sup>2</sup>	30

**Electrical properties**

Properties	Test standard	Unit	Minimum
Tracking resistance	IEC 112	–	CTI 200
Dielectric coefficient	DIN 53483	–	5,5
Insulation resistance after immersion in water	IEC 167	Ω	5 x 10 <sup>10</sup>
Dielectric Strength (■)	IEC 243-1	KV/3 mm	30,6
Dielectric Strength (  )	IEC 243-1	KV/25 mm	35
Fire protection class	UL 94	–	V0

Last update: 11/2014

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

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