

Technical Data Sheet EP GC 201 (Hgw 2372)

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EP GC 201 acc. to EN 60893 / Hgw 2372 acc. to DIN 7735 – glass-fabric laminate with epoxy resin for high mechanical and electrical loads

Typical Properties

- High mechanical strength
- Good electrical insulation properties
- Low water absorption
- Thermoset laminate (dimensionally stable)
- Good machinability
- Colour light green

Typical Industries

- Electrical engineering and switchgear construction (medium voltage)
- Mechanical and plant engineering (high-strength insulating parts)
- Jig, fixture and tool making
- Power transmission engineering
- Test and measurement engineering
- General electrical and equipment engineering

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	500 (DIN 7735: 350)
Tensile strength	DIN 53455	MPa	320 (DIN 7735: 220)
Compressive strength	DIN 53454	MPa	350 (DIN 7735: 200)
Impact strength	DIN 53453	kJ / m ²	150 (DIN 7735: 100)
Notched impact strength	DIN 53453	kJ / m ²	80 (DIN 7735: 50)
Bond strength (splitting force)	DIN 53463	N	4300 (DIN 7735: 3000)
Modulus of elasticity	DIN 53452	MPa	21 · 10 ³ (DIN 7735: 18 · 10 ³)
Electrical Properties			
Volume resistivity	DIN 53482	Ω	10 ¹² (DIN 7735: 5 · 10 ¹⁰)
Electric strength / ⊥	DIN 53481	kV	80 / 65 (DIN 7735: 40 / 40)

	Test Method	Unit	Value
Dielectric loss factor (1 MHz)	DIN 53483		0.03 (DIN 7735: 0.05)
Dielectric constant	DIN 53483		4.6 (DIN 7735: 5)
Comparative tracking index CTI	IEC 112		320 (DIN 7735: 200)
Electrolytic corrosion	DIN 53489		AN 1.2 (DIN 7735: AN 1.4)

Thermal Properties

Limiting temperature	VDE 0304, T.21	°C	130
Thermal conductivity	DIN 52612	W / (m·K)	0.3
Coefficient of linear thermal expansion	VDE 0304	10 ⁻⁶ / K	16
Thermal class	VDE 0534		B

General Properties

Resistance to glow heat	DIN 53459		2a
Density	DIN 53479	g / cm ³	1.83
Water absorption (5 mm thickness)	DIN 53495	mg	10
Colour			light green

EP GC 201 (Hgw 2372 acc. to DIN 7735) is a glass-fabric-reinforced epoxy-resin laminate for high mechanical and electrical loads. The values stated comprise the minimum requirement acc. to DIN 7735 and the typical measured value; they are subject to the usual manufacturing tolerances and serve as an aid to material selection. They are not a legally binding warranty of specific properties. EP GC 201 is not declared for direct food contact.