

Technical Data Sheet MF GC 201 (Hgw 2272)

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MF GC 201 acc. to EN 60893 / Hgw 2272 acc. to DIN 7735 – glass-fabric-reinforced laminate with melamine resin, high tracking resistance, flame retardant

Typical Properties

- Very high tracking resistance (CTI 600)
- High mechanical strength
- Low water absorption
- Flame retardant (UL 94 V-0)
- Very good electrical insulation properties
- Thermoset laminate (dimensionally stable)
- Colour white

Typical Industries

- Electrical engineering and switchgear construction (high tracking resistance)
- Low-voltage insulating parts with tracking-resistance requirement (terminals, sockets, connectors)
- Mechanical and plant engineering
- Jig, fixture and tool making
- Test and measurement technology
- General mechanical component manufacturing

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	340 (DIN 7735: 270)
Tensile strength	DIN 53455	MPa	260 (DIN 7735: 120)
Compressive strength	DIN 53454	MPa	240 (DIN 7735: 180)
Impact strength	DIN 53453	kJ / m ²	125 (DIN 7735: 50)
Notched impact strength	DIN 53453	kJ / m ²	68 (DIN 7735: 30)
Punching shear strength	DIN 53463	N	3100 (DIN 7735: 1800)
Modulus of elasticity	DIN 53452	MPa	22 · 10 ³ (DIN 7735: 14 · 10 ³)
Electrical Properties			
Electric strength / ⊥	DIN 53481	kV	38 / 27 (DIN 7735: 20 / 25)
Dissipation factor (1 MHz)	DIN 53483		0.04
Dielectric constant	DIN 53483		5

	Test Method	Unit	Value
Comparative tracking index CTI	IEC 112		600
Tracking/erosion behaviour	DIN 53489		AB 2
Thermal Properties			
Limiting temperature	VDE 0304	°C	130
Thermal conductivity	DIN 52612	W / (m·K)	0.3
Coefficient of linear expansion	VDE 0304	10 ⁻⁶ / K	10-20
Thermal class	VDE 0534		B
General Properties			
Density	DIN 53479	g / cm ³	1.8-2.0
Water absorption (5 mm thickness)	DIN 53495	mg	370
Glow-wire resistance	DIN 53459		2a
Flammability	UL 94		V-0
Colour			white

MF GC 201 (Hgw 2272 acc. to DIN 7735) is a glass-fabric-reinforced melamine-resin laminate to DIN 7735 / EN 60893. It is characterised by very high tracking resistance and flame-retardant behaviour (UL 94 V-0). 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. MF GC 201 (Hgw 2272) is not declared for direct food contact.