

Technical Data Sheet HGW 2282.5 (MF CC 201)

HGW 2282.5 (MF CC 201)

Hgw 2282.5 acc. to DIN 7735 / MF CC 201 acc. to EN 60893 – cotton-fabric laminate with melamine resin, tracking-resistant, physiologically safe

Typical Properties

- High tracking resistance (CTI 600)
- Physiologically safe
- Usable in the food industry
- High mechanical strength (fabric laminate)
- Good electrical insulation properties
- Thermoset laminate (dimensionally stable)
- Good machinability
- Colour light beige

Typical Industries

- Electrical and insulation technology
- Mechanical and plant engineering
- Food industry
- Switchgear and equipment construction
- Jig, fixture and tool making
- Drive technology (gears, sliding elements)

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	135 (DIN 7735: 90)
Impact strength	DIN 53453	kJ / m ²	15 (DIN 7735: 6)
Notched impact strength	DIN 53453	kJ / m ²	8 (DIN 7735: 4)
Tensile strength	DIN 53455	MPa	95 (DIN 7735: 60)
Compressive strength	DIN 53454	MPa	230 (DIN 7735: 200)
Bond strength (splitting force)	DIN 53463	N	3800 (DIN 7735: 2500)
Modulus of elasticity	DIN 53452	MPa	9 · 10 ³ (DIN 7735: 5 · 10 ³)
Electrical Properties			
Insulation resistance (between plugs)	DIN 53482	Ω	5 · 10 ⁸ (DIN 7735: 10 ⁷)
Electric strength / ⊥	DIN 53481	kV	30 / 15 (DIN 7735: 20 / 10)

	Test Method	Unit	Value
Dielectric constant	DIN 53483		5.5 (DIN 7735: 6)
Comparative tracking index CTI	IEC 60112		600 (DIN 7735: 560)
Electrolytic corrosion	DIN 53489		AB 1.8
Thermal Properties			
Limiting temperature	VDE 0304, T.21	°C	95
Thermal conductivity	DIN 52612	W / (m·K)	0.2
Coefficient of linear thermal expansion	VDE 0304	10 ⁻⁶ / K	18 (DIN 7735: 20-40)
Thermal class	VDE 0534		Y
Resistance to glow heat	DIN 53459		2a (DIN 7735: 2b)
General Properties			
Density	DIN 53479	g / cm ³	1.4 (DIN 7735: 1.3-1.4)
Water absorption (5 mm thickness)	DIN 53495	mg	140 (DIN 7735: 190)
Colour			light beige

Hgw 2282.5 (MF CC 201) consists of a melamine resin reinforced with cotton fabric. It has high tracking resistance, is physiologically safe and is suitable for the production of tracking-resistant machine parts; it is also usable in the food industry. The type designation corresponds to Hgw 2282.5 acc. to DIN 7735 and MF CC 201 acc. to EN 60893. 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.