

Technical Data Sheet

HGW 2572-F5

Hgw 2572-F5 acc. to DIN 7735 (SI GC 202 acc. to EN 60893) – silicone-resin glass-fabric laminate, US-market designation variant of Hgw 2572

Typical Properties

- Very high continuous-use temperature resistance (180 °C)
- Very high tracking resistance (CTI 600)
- Low water absorption
- Good electrical insulation properties even at high temperature
- Thermoset laminate (dimensionally stable)
- Colour white

Typical Industries

- Electric motor and generator construction (slot insulation)
- Heating and thermal engineering
- Transformer and coil construction
- Electrical engineering and switchgear construction (high-temperature applications)
- Aerospace and rail technology
- Jig, fixture and tool making

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	240 (DIN 7735: 125)
Impact strength	DIN 53453	kJ / m ²	95 (DIN 7735: 40)
Notched impact strength	DIN 53453	kJ / m ²	60 (DIN 7735: 25)
Tensile strength	DIN 53455	MPa	164 (DIN 7735: 90)
Compressive strength	DIN 53454	MPa	120 (DIN 7735: 50)
Modulus of elasticity	DIN 53452	MPa	19 · 10 ³ (DIN 7735: 13 · 10 ³)
Electrical Properties			
Electric strength	DIN 53481	kV	30 (DIN 7735: 20)
Dielectric constant	DIN 53483		5 (DIN 7735: 5)
Comparative tracking index CTI	IEC 60112		600 (DIN 7735: 440)
Thermal Properties			
Limiting temperature	VDE 0304, T.21	°C	180

	Test Method	Unit	Value
Thermal conductivity	DIN 52612	W / (m*K)	0.3
General Properties			
Density	DIN 53479	g / cm ³	1.7 (DIN 7735: 1.6-1.7)
Water absorption (5 mm thickness)	DIN 53495	mg	13 (DIN 7735: 50)
Colour			white

Hgw 2572-F5 (SI GC 202 acc. to EN 60893) is a glass-fabric-reinforced silicone-resin laminate acc. to DIN 7735, technically identical to Hgw 2572. The designation "-F5" is a US-market labelling variant of this material and not an independently verified, standalone NEMA standard designation. The material is designed for very high continuous-use temperature resistance (up to 180 °C) and very high tracking resistance (CTI 600). 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. Hgw 2572-F5 is not declared for direct food contact.