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Technical Data Sheet

HGW 2088

Hgw 2088 acc. to DIN 7735 / PF CC 42 acc. to EN 60893 – wound cotton-fabric laminate with phenolic resin (round bar)

Typical Properties

- Wound fabric laminate optimised for round-bar semi-finished products
- Good mechanical strength across the cross-section
- Good electrical insulation properties
- Thermoset laminate (dimensionally stable)
- Good machinability (turning, drilling)
- Colour brown

Typical Industries

- Electrical and insulation technology (low voltage)
- Mechanical and plant engineering
- Drive technology (bushings, spacers, shafts)
- Jig, fixture and tool making
- Switchgear and equipment construction
- General round-part manufacturing

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength	DIN 53452	MPa	100 (DIN 7735: 90)
Impact strength	DIN 53453	kJ / m²	15 (typical value)
Notched impact strength	DIN 53453	kJ / m²	8 (typical value)
Tensile strength	DIN 53455	MPa	50 (typical value)
Compressive strength (parallel)	DIN 53454	MPa	80 (DIN 7735: 80)
Modulus of elasticity	DIN 53452	MPa	$7 \cdot 10^3$ (typical value)
Electrical Properties			
Electric strength ∥ / ⊥	DIN 53481	kV	10 / 4.8 (DIN 7735: 10 / 4.8)
Dielectric constant	DIN 53483		5 (typical value)
Comparative tracking index CTI	IEC 60112		100 (typical value)
Thermal Properties			

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	Test Method	Unit	Value
Limiting temperature	VDE 0304, T.21	°C	120 (DIN 7735: 120)
Thermal conductivity	DIN 52612	W / (m·K)	0.2 (typical value)
Thermal class	VDE 0534		E
General Properties			
Density	DIN 53479	g / cm³	1.3 (DIN 7735: 1.2-1.4)
Water absorption (mass fraction)	ISO 62	%	≤ 2.4
Colour			brown

Hgw 2088 (PF CC 42 acc. to EN 60893) is a wound cotton-fabric laminate with phenolic resin per DIN 7735, specifically designed for the manufacture of round bars. Due to the wound construction, some values differ from the sheet grades Hgw 2082/2083. Some of the values stated are researched typical properties for this material family, as not all properties are separately published by manufacturers for round-bar stock; they serve as an aid to material selection and are not a legally binding warranty of specific properties. Hgw 2088 is not declared for direct food contact.

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