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Technical Data Sheet PF CP 202 (Hp 2061.5)

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Phenolic paper laminate (phenolic resin, paper reinforcement) to DIN 7735 / EN 60893 – electrically improved grade (NEMA XX)

Typical Properties

- Electrically improved grade with high test voltage (40 kV)
- Good mechanical strength and delamination resistance
- Good machinability
- Thermal class E (120 °C limiting temperature)
- Brown colour

Typical Industries

- Electrical and electronics industry
- Switchgear manufacturing
- Mechanical and plant engineering
- Transformer manufacturing
- Power engineering

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength (23 °C)	DIN 53452	MPa	130
Impact strength	DIN 53453	kJ/m²	15
Notched impact strength (Charpy)	DIN 53453	kJ/m²	4
Tensile strength	DIN 53455	MPa	100
Compressive strength ∥ to laminations	DIN 53454	MPa	100
Compressive strength ⊥ to laminations	DIN 53454	MPa	250
Delamination strength	DIN 53463	N	2000
Modulus of elasticity	DIN 53457	MPa	7000
Electrical Properties			
Test voltage ∥ to laminations	DIN 53481	kV	40
Test voltage ⊥ to laminations	DIN 53481	kV	40
Dielectric dissipation factor (50 Hz)	DIN 53483		0.08
Permittivity	DIN 53483		5
Comparative tracking index (CTI)	IEC 112		100
Thermal Properties			
Thermal conductivity	DIN 52612	W/(m·K)	0.2
Coefficient of linear expansion	VDE 0304/2	10^{-6}/K	20–40
Limiting temperature	VDE 0304/2	°C	120

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	Test Method	Unit	Value
Thermal class	IEC 85		E
Glow-wire / ember resistance	DIN 53459		Level 2a
General Properties			
Density	DIN 53479	g/cm³	1.4
Water absorption (4 mm thickness)	DIN 53495	mg	210
Colour			brown

The values stated are typical properties according to DIN 7735 / EN 60893, provided as information about this product and as an aid to material selection. Actual values may vary slightly depending on sheet thickness and batch. No specific properties or fitness for a particular purpose are legally warranted by this information.