

Technical Data Sheet PF CP 203 (Hp 2061.6)

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Hard paper laminate (phenolic resin/paper) to DIN 7735 / EN 60893 – hot-punching grade

Typical Properties

- Hot-punching grade (NEMA XXP)
- By far the lowest water absorption in the PF-CP series
- Good electrical insulation properties
- High mechanical strength
- Good machinability

Typical Industries

- Electrical and electronics industry
- Switchgear manufacturing
- Mechanical engineering
- Punched-parts manufacturing
- Power engineering

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength (23 °C)	DIN 53452	MPa	130
Tensile strength	DIN 53455	MPa	70
Impact strength	DIN 53453	kJ/m ²	7
Notched impact strength (Charpy)	DIN 53453	kJ/m ²	2.5
Compressive strength ⊥ to lamination	DIN EN 60893	MPa	250
Electrical Properties			
Insulation resistance between plugs (24 h / 23 °C)	DIN 53482	Ω	5 × 10 ⁷
Test voltage to lamination	DIN 53481	kV	25
Test voltage ⊥ to lamination	DIN 53481	kV	30
Dielectric dissipation factor (1 MHz, 24 h water immersion)	DIN 53483		max. 0.05
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
Thermal class	IEC 85		E
Resistance to glowing	DIN 53459		Level 2b

	Test Method	Unit	Value
General Properties			
Density	DIN 53479	g/cm ³	1.4
Water absorption (4 mm thickness)	DIN 53495	mg	60
Color			brown

The values stated are typical values for PF CP 203 (Hp 2061.6), researched from common, publicly available data sheet information for this product type. They serve as information about our products and as an aid to material selection and do not constitute a legally binding guarantee of specific properties. Actual values may vary slightly depending on manufacturer and sheet thickness.

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