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Technical Data Sheet PF CP 205 (Hp 2062.9)

PF CP 205 (Hp 2062.9)

Hp 2062.9 acc. DIN 7735 / PF CP 205 acc. EN 60893 – phenolic paper laminate, flame-retardant cold-punchable special grade (UL 94 V-0)

Typical Properties

- Flame-retardant special grade to UL 94 V-0
- Cold-punchable
- Good basic mechanical properties
- Good electrical insulation properties
- Thermoset laminate (dimensionally stable)
- Colour brown

Typical Industries

- Electrical and switchgear engineering
- Electrical industry (punched parts with flame-retardancy requirement)
- Stamped/punched parts manufacturing
- Mechanical engineering
- Equipment manufacturing

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength 23°C	DIN 53452	MPa	130
Impact strength	DIN 53453	kJ / m²	7
Charpy notched impact strength	DIN 53453	kJ / m²	2.5
Tensile strength	DIN 53455	MPa	70
Compressive strength ⊥ to laminations	DIN EN 60893	MPa	250
Modulus of elasticity	DIN 53457	MPa	7000
Electrical Properties			
Electric strength ∥ to laminations	DIN 53481	kV	25
Electric strength ⊥ to laminations	DIN 53481	kV	30
Comparative tracking index (CTI)	IEC 112		100
Permittivity	DIN 53483		5
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
Flammability	UL 94		V-0
Thermal class	IEC 85		E
Resistance to glowing	DIN 53459		2a

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	Test Method	Unit	Value
General Properties			
Density	DIN 53479	g / cm³	1.4
Water absorption (4 mm thickness)	DIN 53495	mg	60
Colour			brown

PF CP 205 (Hp 2062.9) is a phenolic paper laminate reinforced with cellulose paper according to DIN 7735 / EN 60893, in a flame-retardant special grade to UL 94 V-0 that is cold-punchable. The values for permittivity, thermal class, coefficient of linear expansion and resistance to glowing are typical, researched properties for this material type within the PF-CP series and are not separately documented single values for this specific grade. All values are subject to normal manufacturing tolerances; they serve as an aid to material selection and are not a legally binding warranty of specific properties. Actual values may vary slightly depending on manufacturer and sheet thickness. PF CP 205 (Hp 2062.9) is not declared suitable for direct food contact.

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