

Technical Data Sheet Hp 2062.9 (PF CP 205)

Hp 2062.9 (PF CP 205)

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 / m ²	7
Charpy notched impact strength	DIN 53453	kJ / m ²	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

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

Hp 2062.9 (PF CP 205) 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. Hp 2062.9 (PF CP 205) is not declared suitable for direct food contact.

Liedtke
Kunststofftechnik.de