

Technical Data Sheet Hp 2061 (PF CP 201)

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Hp 2061 n. DIN 7735 / PF CP 201 n. EN 60893 – phenolic paper laminate, standard general-purpose grade

Typical Properties

- Economical standard-grade paper laminate (NEMA X/XP)
- Good basic mechanical properties
- Moderate electrical insulation properties
- Thermoset laminate (dimensionally stable)
- Good machinability
- Most widely used grade of the PF-CP series
- Cost-effective
- Colour brown

Typical Industries

- Electrical engineering and insulation technology (low voltage)
- Mechanical and plant engineering
- Jig, fixture and tool making
- Drive technology (gears, sliding elements)
- Switchgear and equipment manufacturing
- General mechanical component making

	Test Method	Unit	Value
Mechanical Properties			
Flexural strength 23°C	DIN 53452	MPa	150
Impact strength	DIN 53453	kJ/m ²	20
Charpy notched impact strength	DIN 53453	kJ/m ²	4
Tensile strength	DIN 53455	MPa	100
Compressive strength to laminations	DIN 53454	MPa	150
Compressive strength ⊥ to laminations	DIN 53454	MPa	300
Cleavage strength	DIN 53463	N	2000
Modulus of elasticity	DIN 53457	MPa	7000
Electrical Properties			
Electric strength	DIN 53481	kV	15
Electric strength ⊥	DIN 53481	kV	15
Dissipation factor (50 Hz)	DIN 53483	–	0.05
Permittivity	DIN 53483	–	5
Comparative tracking index (CTI)	IEC 112	–	100
Thermal Properties			
Thermal conductivity	DIN 52612	W/(m·K)	0.2

	Test Method	Unit	Value
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	grade	2b
General Properties			
Density	DIN 53479	g/cm^3	1.4
Water absorption (4 mm thickness)	DIN 53495	mg	300
Colour			brown

Hp 2061 (PF CP 201) is a phenolic paper laminate reinforced with cellulose paper according to DIN 7735 / EN 60893. It is the economical standard grade (NEMA X/XP) of this material family. The stated values are typical properties 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 2061 (PF CP 201) is not declared suitable for direct food contact.