

Technical Data Sheet Hp 2063 (PF CP 204)

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Flame-retardant phenolic paper laminate (phenolic resin/paper) per DIN 7735 / EN 60893 – type EP GC 202 / FR-2

Typical Properties

- Flame retardant per UL 94 V-0
- Good electrical insulating properties
- Economical standard material for flame-retardant printed circuit boards
- Good machinability (sawing, milling, drilling, punching)
- Brown colour

Typical Industries

- Printed circuit board manufacturing (PCB base material)
- Electrical and switchgear engineering
- Electrical industry
- Equipment manufacturing

	Test Method	Unit	Value
Mechanical Properties			
Density	DIN 53479	g/cm ³	1.4
Flexural strength 23°C	DIN 53452	MPa	80
Tensile strength	DIN 53455	MPa	60
Compressive strength ⊥ to laminations	DIN EN 60893	MPa	250
Modulus of elasticity	DIN 53457	MPa	5000
Electrical Properties			
Insulation resistance 24h/23°C	DIN 53482	Ω	10 ¹⁰
Electric strength to laminations	DIN 53481	kV	20
Electric strength ⊥ to laminations	DIN 53481	kV	25
Dissipation factor 1MHz/24h water storage	DIN 53483	–	max. 0.06
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	90
Flammability	UL 94	–	V-0
Thermal class	IEC 85	–	E

	Test Method	Unit	Value
Resistance to glowing	DIN 53459	grade	2a
General Properties			
Water absorption (4mm thickness)	DIN 53495	mg	120
Colour			brown

The values stated are typical properties per DIN 7735 / EN 60893 for this material type and serve as an aid for material selection. They do not constitute a legally binding guarantee of specific properties. Actual values may vary slightly depending on sheet thickness and production batch. The currently applicable standards and case-specific data shall govern.

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