

Laminates

DELLIT PF CP 202

- ▶ High Pressure Laminate with considerable electric strength
- ▶ Suitable in the high voltage and power frequency sector

General description

Dellit PF CP 202 is a paper laminate bonded with special phenolic resin.

RoHS Directive

Hazardous products listed in the EU-directive 2002/95/CE (ROHS-directive), §4 section 1, are not used as ingredients in this material.

Specifications

IEC/DIN EN 60893	PF CP 202
DIN 7735	HP 2061.5 (*)
BS 2572	P2 / P3
NFC 26-150	Pa
NEMA LI-1	similar XXP

(*) no longer valid since March 2003

Colour

Brown

Application

Control panels, switchboards
Electrical insulation at high voltage
Transformers

Former denominations

HP I HW
Pertinax 61.170 / 61.220
Dellit 400.10

Form of delivery

Sheet format 2050 x 1050 and 2200 x 1220 mm
Tolerance of formats +/- 20 mm
Thickness in range of 0,5 to 50 mm
Thickness tolerances acc. to DIN EN 60893-3-4

Material also available as cut to size panels and machined parts.
Other dimensions and thicknesses on request.

Processing

Machining with carbide or diamond tools.

	Value	Test norm
Mechanical properties		
Flexural strength	MPa 180	ISO 178
Modulus of elasticity	MPa 8000	ISO 178
Flatwise compressive strength	MPa 300	ISO 604
Electrical properties		
Relative permittivity at 1 MHz	5.0	IEC 60250
Insulation resistance after the immersion in water	Ω 1.00E+8	IEC 60167
Breakdown voltage //, 90°C in oil	kV 60	IEC 60243-1
Flatwise electric strength, 90°C in oil	kV/mm 15	IEC 60243-1
Comparative tracking index CTI	V 100	IEC 60112
Thermal properties		
Temperature index (TI)	°C 120	IEC 60216
Coefficient of linear expansion //	1.0E-6 / K 15	VDE 0304
Thermal conductivity	W/m.K 0.2	DIN 52612
Physical properties		
Density	g/cm ³ 1.38	ISO 1183
Water absorption 24h at 23°C (10mm thick)	mg / % 105 / 1.0	ISO 62

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