

Datasheet AS PF CP 205

Standard types according to DIN EN 60893.

Sheets made from industrial laminated materials.

Value: Minimum requirements of DIN EN 60893.

Value: Typical values, general recommended values, which must not be used as standard values.

- (1): The flexural strength measured at 150 °C ± 3K must not be less than 50% of the defined value.
 (2): The flexural strength measured at 130 °C ± 3K must not be less than 50% of the defined value.
 (3): After 96 h pretreatment in air at 105 °C ± 5K directly prior to testing and immediate immersion in the hot oil.
 (4): UL- listed file E307596.

Material	
Characteristic property applications	As type 204 but with flame retardant, V-1
Resin	Phenolic
Substrate	Cellulose paper

Availability	Unit	Value
Sizes	mm	1050x1020, 1050x2150 and 1250x2800
Thickness	mm	0.1-360

Physical Properties	DIN EN 60893-2	Test Standard	Unit	Min/Max	Value
Density	8.1	ISO 1183	g/cm ³		1.3-1.4
Water absorption (thickness 10 mm)	8.2	ISO 62	mg	Max	113

Mechanical Properties	DIN EN 60893-2	Test Standard	Unit	Min/Max	Value
Flexural strength	5.1	ISO 178	MPa	Min	75
Elastic modulus from bending test	5.2	ISO 178	MPa	Min	5.000
Compressive strength perpendicular	5.3	ISO 604	MPa	Min	250
Impact strength Charpy or Izod	5.4.2/5.4.3	ISO 179/3C	kJ/m ²	Min	-
Shear strength parallel	5.5	VDE 0318/2	MPa	Min	20
Tensile strength	5.6	ISO 527-4	MPa	Min	60

Electrical Properties	DIN EN 60893-2	Test Standard	Unit	Min/Max	Value
Dielectric strength perpendic at 90 °C in oil (thickness 3 mm)	6.1.3.1	IEC 60243-1	kV/mm	Min	8,4
Dielectric strength parallel at 90 °C in oil	6.1.3.2	IEC 60243-1	kV	Min	20
Permittivity 50 Hz	6.2	IEC 60250		Max	-
Permittivity 1 MHz	6.2	IEC 60250		Max	5.5
Dissipation factor 50 Hz	6.2	IEC 60250		Max	-
Dissipation factor 1 MHz	6.2	IEC 60250		Max	0.05
Insulation resistance	6.3	IEC 60167	MΩ	Min	1.000
Proof tracking index	6.4	IEC 60112	V	Min	-
Comparative tracking index	6.4	IEC 60112	V	Min	100

Thermal Properties	DIN EN 60893-2	Test Standard	Unit	Min/Max	Value
Thermal endurance	7.1	IEC 60216	T.I.	Min	100
Flammability	7.2	IEC 60707	Category		V-1