APSOplast® PF CP MF



Engineering plastics technology Technical Data Sheet

Application purpose and characteristics

APSOplast PF CP MF serves as insulating construction material for components in electrical equipment such as cell and pole partitions for medium and high voltage switch-gear cabinets. It is also used for cover plates for switch-gear cabinets, switching apparatus in telephone installations, ships, industrial plants and power stations. Also for base plates of cable junction boxes, panels in household consumer units and fuse boxes as well as for control panels in a wide range of electrical applications.

This laminated paper is coated with a layer of melamine resin on both sides. It has extremely high track resistance and dielectric strength, is scratchresistant and generally resistance to chemicals. This material can easily be labelled, printed, laminat

PF CP
Phenolic resin laminated paper fabrics
1.4 g/cm³
grey
PF CP MF.020-00
PF CP + MF-top-layer

Mechanical properties

Tensile strength	100 N/mm² DIN 53455
Flexural modulus of elasticity	7000 N/mm² DIN 53457
Bending strength 1	130 N/mm² DIN 53452
Compressive strength 1	150 N/mm² DIN 53454 Parallel to the layer
Impact strength	#ErrorkJ/m² DIN 53453
Notch impact strength	4.00 kJ/m ² DIN 53453 Charpy parallel to the layer

Thermal attributes

Limit temperature	120 °C VDE 0304
Coefficient of linear thermal expansion 1	20 - 40 * 10 ⁻⁶ /K VDE 0304
Thermal class	E
Thermal conductivity	0.2 W/(m·K) DIN 52612

Other attributes

Water absorption	80 mg DIN 53495 thiakaaaa 2 mm
	Inickness 3 mm

Electrical attributes	
Comparative tracking index	600 IEC 112
Dielectric dissipation factor 1	0.08 DIN 53483 50 Hz
Dielectric constant 1	5 DIN 53483
Dielectric strength 1	25 kV/mm DIN 53481 Vertical to the layer in oil at 90 °C
Dielectric strength 2	20 kV/mm DIN 53481 Parallel to the layer in oil at 90°C
Insulation resistance	109 Ohm DIN 53482 After dip into water

In compliance with RoHS and REACH directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.