

## Datasheet AIPFCP21



AI PF CP 21 is suitable for mechanical and electrical low-voltage applications. Good electrical properties at normal air humidity. Also used as winding tubes in the foil and metal foil industries. Carrier tubes for polishing brushes.

### Application

For mechanical and electrical applications in low-voltage constructions

### Material

Phenol strengthened paper-based composite.

### Availability

	Value	Unit
Rod diameters	on request	
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	



## AIPFCP21 - Specifications

### Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,25	g/cm <sup>3</sup>
Water absorption at 23 °C	ISO 62-1	4,5	mg/cm <sup>2</sup>
Flammability		on request	

### Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	130	MPa
Flexural strength		on request	
Insulation resistance		1	MΩ
Elastic modulus from bending test		100	MPa
Compressive strenth perpendicular		70	MPa

### Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)	IEC 60216	120	°C

### Friction properties

	Test standard	Value	Unit
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### Electrical properties

	Test standard	Value	Unit
Dielectric strength parallel		15	kV
Permittivity 50Hz	IEC 60250	5	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0,04	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	10	MΩ