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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.

Availablity

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





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AIPFCP21 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,25	g/cm³
Water absorption at 23 °C	ISO 62-1	4,5	mg/cm²
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	ºC

Friction properties

	Test standard	Value	Unit

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

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