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Datasheet AIPFCP206



AI PF CP 206 Is a construction material for mechanical, electrotechnical and high-frequency purposes. Resistant to tropical conditions, where high humidity is expected. Suitable as high-frequency insulation thanks to low dielectric dissipation factor.

Application

Material

Phenol strengethened paper-based composite.

Availablity

	Value	Unit
Sheet thickness	0,15-150	mm
Sheet size	1250x1250/2500	mm





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AIPFCP206 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm³
Water absorption at 23 °C		on request	
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	300	MPa
Module of elasticity - Youngs modulus	ISO 178	8000	MPa
Tensile strength	ISO 527	95	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	130	MPa
Flexural strength		on request	
Insulation resistance		on request	
Elastic modulus from bending test		on request	
Compressive strenth perpendicular		on request	
Izod impact strength, parallel with layers	ISO 180/2A	3	kJ/m²
Shear strength parallel	ISO 60893-2	40	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 perpendic thickness 3 mm		on request	
Resistance to tracking (CTI)	IEC 60112	100	CTI
Permittivity 50Hz	IEC 60250	5	[-]
Permittivity 1MHz	IEC 60250	5	[-]
Dissipation factor 50Hz	IEC 60250	0,035	[-]
Dissipation factor 1 MHz	IEC 60250	0,035	[-]
Insulation resistance after submersion in water	IEC 60167	100	MΩ

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