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Datasheet AIPFCP206



Al 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	1250×1250/2500	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

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	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	[©] C

Friction properties

Test standard	Value	Unit
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Electrical properties

	Test standard	Value	Unit
Dielectric strength perpendic thickness 3 mm		on request	
Resistance to tracking (CTI)	IEC 60112	100	СТІ
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	ΜΩ

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