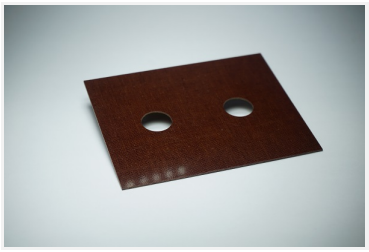
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Datasheet AIPFCC201



AI PF CC 201 Is exclusively for mechanical applications. Impact resistant, resistant to mechanical wear, noise-reducing, low friction. Well suited for parts where there are high mechanical load and wear. Good wear resistance in aggressive and dust-filled environments. Can be lubricated with water, oil or grease. Resistant to weather and salt water.

Application

Material

Phenol strengthened cotton fabric-based composite.

Availablity

	Value	Unit
Sheet thickness	0,2-150	mm
Sheet size	1050/1250 x 1250/2050/2500/2750	mm



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AIPFCC201 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm³
Water absorption at 23 °C	ISO 62-1	120	mg
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	320	MPa
Module of elasticity - Youngs modulus	ISO 178	7000	MPa
Tensile strength	ISO 527	80	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	115	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	10	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	100	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	0	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	1	MΩ

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