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Datasheet AIPFCC202



AE PF CC 202 is a composite with cotton as its base, outstanding mechanical properties, good durability and low friction are achieved.

Application

Mechanical and electrical application Coarse fabric

Material

Phenol strengthened cotton fabric-based composite.

Availablity

	Value	Unit
Sheet thickness	on request	
Sheet size	on request	





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AIPFCC202 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183	1,38	g/cm³
Water absorption at 23 °C	ISO 62	230	mg
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength	ISO 527-4	100	MPa
Shear strength	VDE 0318/2	50	MPa
Impact strength		on request	
Flexural strength		on request	
Charpy impact strength +23°C	ISO 179/3C	20	Kj/m²
Insulation resistance		on request	
Elastic modulus from bending test		on request	
Compressive strenth perpendicular	ISO 604	320	MPa
Izod impact strength, parallel with layers		on request	
Shear strength parallel		on request	

Thermal properties

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

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	150	CTI
Permittivity 50Hz		on request	
Permittivity 1MHz		on request	
Dissipation factor 50Hz		on request	
Dissipation factor 1 MHz		on request	
Insulation resistance after submersion in water	IEC 60167	760	MΩ

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