ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet AIPFCP203



AI PF CP 203 Suitable for mechanical and electrical applications used at normal air humidity.

Application

Material

Paper strengthened phenol-based composite.

Availablity

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





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AIPFCP203 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm³
Water absorption at 23 °C	ISO 62-1	110	mg
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	110	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	160	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	3,3	kJ/m²
Shear strength parallel	ISO 60893-2	35	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		on request	
Dissipation factor 50Hz	IEC 60250	0,04	[-]
Dissipation factor 1 MHz		on request	
Insulation resistance after submersion in water	ISO 60167	100	MΩ

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