



Datasheet AIPFGC201



AI PF GC 201 Is a high performance /price ratio insulation material. Self-extinguishing, halogen-free, very low smoke emission and toxicity. Mechanically much stronger than AIPFCP and AIPFCC series.

Application



Material



Availability

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



AIPFGC201 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,95	g/cm ³
Water absorption at 23 °C	ISO 62-1	40	mg
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	500	Mpa
Module of elasticity - Youngs modulus	ISO 178	19000	MPa
Tensile strength	ISO 527	250	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	350	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	55	kJ/m ²
Shear strength parallel	ISO 60893-2	50	MPa

Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)	IEC 60216	155	°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	CTI
Permittivity 50Hz	IEC 60250	5	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0,03	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	1000	MΩ