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Datasheet AIPFCC305



AI PF CC 305 Is a friction reducing material consisting of phenolic resin and a very fine cotton fabric. Exclusively for mechanical applications, for example wear parts/vanes in air pumps. Good dry-run properties but can be lubricated with oil, grease or water. Well suited where narrow tolerances and low surface roughness are required.

Application

Material

Availablity

	Value	Unit
Sheet thickness	0,5-50	mm
Sheet size	1250 x 1250/2500	mm





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AIPFCC305 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,4	g/cm³
Water absorption at 23 °C	ISO 62-1	60	mg
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	280	MPa
Module of elasticity - Youngs modulus	ISO 178	8000	MPa
Tensile strength	ISO 527	90	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	140	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	6	kJ/m²
Shear strength parallel	ISO 60893-2	50	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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