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Datasheet AIPFCC22



AI PF CC 22 Is suitable for mechanical applications. Impact-resistant, noise-reducing and wear-resistant material. Well suited as a low-friction material. High wear resistance in aggressive and dust-filled environments. Can be lubricated with water, oil or grease. Resistant to weather and salt water. Examples of applications are bearing bushes, rubber bearings and guide ring for hydraulic cylinders.

Application

Mechanical applications like pinions, rubber stock tubes and piston rings for hydraulic cylinders

Material

Phenol strengthened cotton fabric-based composite.

Availablity

	Value	Unit
Rod diameters	on request	
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	





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AIPFCC22 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,25	g/cm³
Water absorption at 23 °C	ISO 62-1	2,5	mg/cm²
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	90	MPa
Flexural strength		on request	
Insulation resistance		2	MΩ
Elastic modulus from bending test		100	MPa
Compressive strenth perpendicular		90	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 parallel		10	kV
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	100	MΩ

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