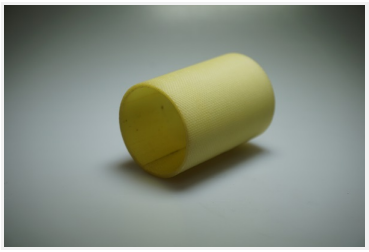
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Datasheet AIEPGC23



AI EP GC 23 Is suitable for mechanical, electrical and electronic applications. Extremely high mechanical strength at moderate temperatures. Very good stability of electrical properties when exposed to high relative humidity. The material is self-extinguishing.

Application

Used in mechanical, electrical and electronic constructions.

Material

Epoxy with woven glass cloth 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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AIEPGC23 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,85	g/cm³
Water absorption at 23 °C	ISO 62-1	0,3	mg/cm²
Flammability	UL-94	V-0	[-]

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		7,7	Charpy or Izod
Bending strenght	ISO 178	350	MPa
Flexural strength		300	MPa
Insulation resistance		1000	MΩ
Elastic modulus from bending test		175	MPa
Compressive strenth perpendicular		200	MPa

Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)	IEC 60216	145	ºC

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric strength parallel		40	kV
Permittivity 50Hz	IEC 60250	4,5	[-]
Permittivity 1MHz	IEC 60250	4,5	[-]
Dissipation factor 50Hz	IEC 60250	0,01	[-]
Dissipation factor 1 MHz	IEC 60250	0,01	[-]
Insulation resistance after submersion in water	IEC 60167	10.000	MΩ

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