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## **Datasheet AIEPPC301**



AE IP PC 301 is characterized for being strong and tough. It is also the lowest in welling in water and has an incredibly low water absorption. AEIPPC301 is high chemical resistance, e.g., to SF6 gas. When there is SF6 gas used as an insulation medium AEIPPC301 is suitable for high/voltage circuit breakers.

#### **Application**

#### **Material**

Epoxy-laminated polyester fibre cloth, SF6-resistant.

## **Availablity**

	Value	Unit
Sheet thickness	2,0-150	mm
Sheet size	1250×1250/2500	mm





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## **AIEPPC301 - Specifications**

## **Physical properties**

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm³
Water absorption at 23 °C	ISO 62-1	20	mg
Flammability		on request	

## **Mechanical properties**

	Test standard	Value	Unit
	rest standard	value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus	ISO 178	4500	MPa
Tensile strength	ISO 527	135	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	150	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	50	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	130	ºC

# **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	200	СТІ
Permittivity 50Hz	IEC 60250	4	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0,01	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	10	ΜΩ

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