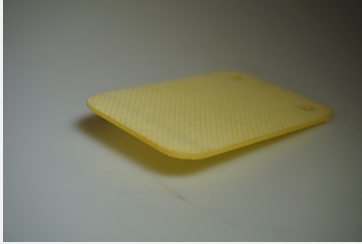


Datasheet AIEPPC301



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.

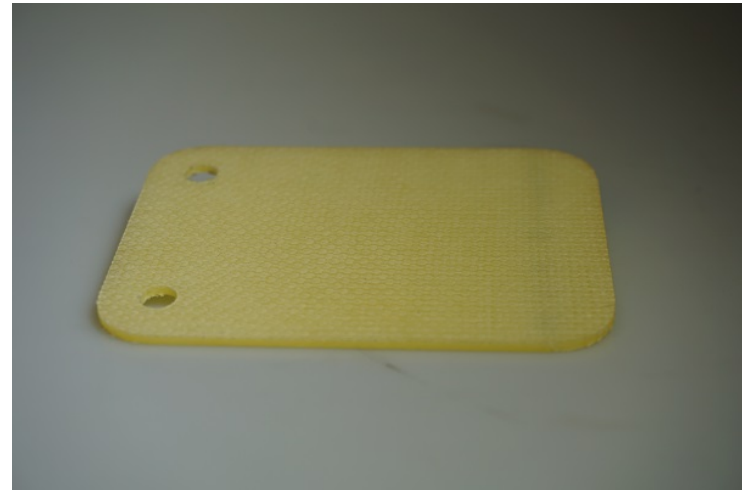
Application

Material

Epoxy-laminated polyester fibre cloth, SF6-resistant.

Availability

	Value	Unit
Sheet thickness	2,0-150	mm
Sheet size	1250x1250/2500	mm



AIEPPC301 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm ³
Water absorption at 23 °C	ISO 62-1	20	mg
Flammability		on request	

Mechanical properties

	Test 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/m ²
Shear strength parallel	ISO 60893-2	35	MPa

Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)	IEC 60216	130	°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	200	CTI
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	MΩ