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Datasheet AIEPGC306



AI EP GC 306 Can be describe as an all-in-one material. The carefully composed resins combine with the glass base result not only in exceptional resistance, but also amazing electrotechnical properties. Suitable for countless applications.

Application

Electrical and mechanical application

Material

Epoxy with woven glass cloth composite

Availablity

	Value	Unit
Sheet thickness	on request	
Sheet size	on request	





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AIEPGC306 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,9	g/cm³
Water absorption at 23 °C		34	mg
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		300	MPa
Shear strength		30	MPa
Impact strength		50	kJ/m³
Flexural strength		on request	
Insulation resistance		on request	
Elastic modulus from bending test		22.000	MPa
Compressive strenth perpendicular		350	MPa
Izod impact strength, parallel with layers		on request	
Shear strength parallel		on request	

Thermal properties

	Test standard	Value	Unit
Thermal endurance 20,000 h (T.I)		155	T.I.

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric strength perpendic thickness 3 mm		10,2	kV/mm
Resistance to tracking (CTI)		500	CTI
Permittivity 50Hz		5,5	[-]
Permittivity 1MHz		5,5	[-]
Dissipation factor 50Hz		0,04	[-]
Dissipation factor 1 MHz		0,04	[-]
Insulation resistance after submersion in water		50.000	MΩ

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