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Datasheet AIEPGC204



AI EP GC 204 Has extremely high mechanical strength at moderate temperature. Exceptionally good stability of electrical properties under high humidity. Combustibility according to UL 94 V-0.

Application

For use in mechanical, electrical and electronic applications.

Material

Epoxy with woven glass cloth composite.

Availablity

	Value	Unit
Sheet thickness	0,15-150	mm
Sheet size	1250x1250/2500	mm





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AIEPGC204 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,9	g/cm³
Water absorption at 23 °C	ISO 62-1	10	mg
Flammability	UL 94	V-0	[-]

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	550	MPa
Module of elasticity - Youngs modulus	ISO 178	22000	MPa
Tensile strength	ISO 527	320	MPa
Shear strength		on request	
Impact strength		on request	
Bending strenght	ISO 178	450	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	65	kJ/m²
Shear strength parallel	ISO 60893-2	55	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 perpendic thickness 3 mm		on request	
Resistance to tracking (CTI)	IEC 60112	200	CTI
Permittivity 50Hz	IEC 60250	4,5	[-]
Permittivity 1MHz	IEC 60250	4,5	[-]
Dissipation factor 50Hz	IEC 60250	0,005	[-]
Dissipation factor 1 MHz	IEC 60250	0,008	[-]
Insulation resistance after submersion in water	ISO 60167	500	MΩ

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