ASEC Products
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Datasheet AIPFCP308

AI PF CP 308 Is a construction material for mechanical, electrotechnical and high-frequency purposes. Resistant to tropical conditions, where high humidity is expected. Suitable as high-frequency insulation thanks to low dielectric dissipation factor.

Application

Material

Phenol strengethened paper-based composite.

Availablity

	Value	Unit
Sheet thickness	on request	
Sheet size	on request	

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AIPFCP308 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-A	1,35	g/cm³
Water absorption at 23 °C		149	mg
Flammability		V-1	[-]

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		70	MPa
Shear strength		20	MPa
Impact strength		on request	
Flexural strength		85	MPa
Insulation resistance		on request	
Elastic modulus from bending test		7.000	MPa
Compressive strenth perpendicular		250	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)		100	T.I.

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric strength perpendic thickness 3 mm		7,7	kV/mm
Resistance to tracking (CTI)		100	CTI
Permittivity 50Hz		on request	
Permittivity 1MHz		6	[-]
Dissipation factor 50Hz		on request	
Dissipation factor 1 MHz		0,05	[-]
Insulation resistance after submersion in water		1000	MΩ