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B1 Product Data Sheet

BSEN60893-3-4-PFCP206 Electrical Grade Phenolic Paper Laminate

Material Details

Grade:	B1
Description:	Phenolic Paper. Electrical Grade SRBP
Comments:	This grade was originally produced to meet the requirements of MOD (Navy DG Ships) It has excellent electrical strength both in air and immersed in oil and good mechanical properties, low water absorption and high Insulation resistance. Used in high and medium voltage applications including switchgear, terminal panels bus bar supports.
Specifications:	BSEN60893-3-4-PFCP206 (Which supersedes BS2572 P3). The closest NEMA equivalent to this specification is NEMA XXX
Body Colour:	Brown
Cover Colour:	Sepia Brown
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 75.0

Typical Applications

- Busbar Supports
- Coil Formers
- Electromagnetic Coil Insulation
- High Voltage Insulation
- Insulating Bushes Spacers Sleeves
- Insulating Handles
- Mechanical Applications
- Pipeline Insulation
- Precision Machined Parts

- Terminal Boards and Tag Strips
- Track Resistance

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.37
Water Absorption	mg	70
Flammability Category	--	FH1

¥ Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

Property	Unit of measure	Typical Value
IR (24hrs Water Immersed)	G Ω	6
Electric Strength (Flat Rapid)	MV/m	14
Electric Strength (Flat Step by Step)	MV/m	8.2
Breakdown Voltage (Edge Step by Step)	kV	60
Relative Permittivity @ 1 MHz	--	5
Dissipation Factor @ 1 MHz	--	0.035
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	190
Tensile Strength	MPa	100
Impact (Notched CHARPY)	kJ/m2	3.5

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	105
Thermal Rating Intermittent	°C	120

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user’s responsibility to ensure suitability for the intended end use.

Source: https://www.attwater.com/products/b1/