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Date Generated: Sunday 22nd of November 2026

B4 Product Data Sheet

BSEN60893-3-4-PFCP201 B4 Phenolic Paper Laminate SRBP

Material Details

Grade:	B4
Description:	Phenolic Paper. Superior commercial grade
Comments:	A high quality commercial grade for normal temperature and low-tension electrical applications such as flash barriers, secondary insulation in switchgear, jigs, fixtures and mechanical components. May be hot punched.
Specifications:	BSEN60893-3-4-PFCP201 (Which supersedes BS2572 P1). The closest NEMA equivalent to this specification is NEMA X
Body Colour:	Brown
Cover Colour:	Dark Brown
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 75.0

Typical Applications

- Coil Formers
- Jigs and Fixtures
- Low Voltage Insulation
- Mechanical Applications
- Pipeline Insulation
- Precision Machined Parts
- Terminal Boards and Tag Strips
- Welding Jigs

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.35
Water Absorption	mg	155
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	0.025
IR (Dry)	G Ω	0.025
Electric Strength (Flat Rapid)	MV/m	2
Breakdown Voltage (Edge Step by Step)	kV	14.5
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	178
Tensile Strength	MPa	120
Impact (Notched CHARPY)	kJ/m2	4.5

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	100
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/b4/