Attwater & Sons Ltd +44 (0)1772 258245
Email: info@attwater.com
www.attwater.com

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B5 Product Data Sheet

B5 Commercial Grade Phenolic Paper Laminate SRBP

Material Details

Grade:	B5
Description:	Phenolic Paper. Low Cost Commercial Grade SRBP (Not manufactured by The Attwater Group)
Comments:	Developed as a low cost alternative to type B4. B5 is intended as a general purpose product where cosmetic appearance is not critical. It is general manufactured to meet the requirements of BSEN60893-3-4-PFCP201.
Specifications:	The closest NEMA equivalent to this specification is NEMA X
Body Colour:	Dark Brown
Cover Colour:	Brown
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 75.0

Typical Applications

- Coil Formers
- High Voltage Insulation
- Jigs and Fixtures
- Low Voltage Insulation
- Mechanical Applications
- 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	200
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	0.01
IR (Dry)	G Ω	0.01
Electric Strength (Flat Rapid)	MV/m	2
Breakdown Voltage (Edge Step by Step)	kV	10
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	190
Tensile Strength	MPa	120
Impact (Notched CHARPY)	kJ/m2	4

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/b5/