

Date Generated: 02.05.24

## B11 Product Data Sheet

### Material Details

Grade:	B11. (Type: Fabric Based Laminates - SRBF)
Description:	Phenolic Cotton. Fine Weave SRBF
Comments:	A cost effective Cotton Phenolic laminate made from fine weave cotton fabric, with good electrical and mechanical properties. Can be machined to a good finish. Similar to Bakelaque B10 but slightly coarser weave.
Specifications:	BSEN60893-3-4-PFCC203 The closest NEMA equivalent to this specification is NEMA L.
Body Colour:	Sandy Brown
Cover Colour:	Sandy Brown
Standard Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 150.0 †

### Typical Applications

- Wear Resistant Components
- Rotor Blades (compressor)
- Punched Components
- Piston Rings
- Low Voltage Insulation
- Jigs and Fixtures
- Insulating Bushes Spacers
- Sleeves
- Gears - Medium Tooth
- Cryogenic Resistance Components
- Bolts and Screws
- Ball Race Cages

### General Properties

Property	Unit of measure	Typical Value
Density	g/cm <sup>3</sup>	1.35
Water Absorption	mg	120 mg

‡ 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 □	0.8

Property	Unit of measure	Typical Value
IR (Dry)	G □	0.8
Electric Strength (Flat Rapid)	MV/m	4
Breakdown Voltage (Edge Step by Step)	kV	32
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	155
Tensile Strength	MPa	80
Impact (Notched CHARPY)	kJ/m2	9

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	115
Thermal Rating Intermittent	°C	125

Notes

- Datasheet Issue No. 1

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/b11/>