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## B12 Product Data Sheet

### Material Details

<b>Grade:</b>	B12. (Type: Fabric Based Laminates - SRBF)
<b>Description:</b>	Phenolic Cotton. Medium Weave SRBF
<b>Comments:</b>	Medium weave cotton phenolic laminate for general-purpose usage. Suitable for gears, bearings and low-tension electrical applications, Lightweight and easy to machine. This grade is also designed to meet the requirements of PFCC203.
<b>Specifications:</b>	BSEN60893-3-4-PFCC201 & 203 (Which supersedes BS2572 F3 & F2). The closest NEMA equivalent to this specification is NEMA C.
<b>Body Colour:</b>	Sandy Brown
<b>Cover Colour:</b>	Sandy Brown
<b>Standard Finish:</b>	Satin/Glossy
<b>Size:</b>	1220 x 1220 Thickness Range: 0.8 - 150.0 †

### Typical Applications

- Welding Jigs
- Wear Resistant Components
- Thrust Washers
- Slideways
- Scraper Blades
- Rotor Blades (compressor)
- Rolling Mill Bearings
- Punched Components
- Pulleys and Sheaves
- Piston Rings
- Pipeline Insulation
- Low Voltage Insulation
- Jigs and Fixtures
- Insulating Handles
- Insulating Bushes Spacers  
Sleeves
- Heavy Duty Rollers
- Guide Plates and Star Wheels
- Gears - Medium Tooth
- Gears - Coarse Tooth
- Cryogenic Resistance  
Components
- Conveyor Wheels
- Cams and Camfollowers
- 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	100

† 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 □	0.3
IR (Dry)	G □	0.3
Electric Strength (Flat Rapid)	MV/m	2.5
Breakdown Voltage (Edge Step by Step)	kV	14.5
Tracking Index	V	110

## Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	120
Tensile Strength	MPa	80
Impact (Notched CHARPY)	kJ/m <sup>2</sup>	15

## 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/b12/>