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B10 Product Data Sheet

Material Details

Grade:	B10. (Type: Fabric Based Laminates - SRBF)
Description:	Phenolic Cotton. Very Fine Weave, type PFCC305
Comments:	Very fine weave cotton phenolic laminate with good electrical and mechanical properties. Can be machined to a very fine finish. Suitable for instrument gears and other intricate machined components. Manufactured to comply with types BSEN60893-3-4-PFCC305 (Formerly BS2572 F1)
Specifications:	BSEN60893-3-4-PFCC305 (Which supersedes BS2572 F1). 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
- Seal Rings
- Scraper Blades
- Rotor Blades (compressor)
- Punched Components
- Pulleys and Sheaves
- Precision Machined Parts
- Piston Rings
- Insulating Handles
- Insulating Bushes Spacers Sleeves
- High Performance Aerospace Components
- Gears - Fine Tooth
- Gasket Manufacture
- Cryogenic Resistance Components
- Conveyor Wheels
- Cams and Camfollowers
- Busbar Supports
- Bolts and Screws
- Ball Race Cages

General Properties

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

† 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 □	0.2
IR (Dry)	G □	0.2
Electric Strength (Flat Rapid)	MV/m	4
Breakdown Voltage (Edge Step by Step)	kV	24
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	140
Tensile Strength	MPa	85
Impact (Notched CHARPY)	kJ/m ²	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/b10/>