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B10 Product Data Sheet

BSEN60893-3-4-PFCC305 B10 Very Fine Weave Phenolic Cotton Laminate SRBF

Material Details

Grade:	B10
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
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 150.0

Typical Applications

- Ball Race Cages
- Bolts and Screws
- Busbar Supports
- Cams and Camfollowers
- Conveyor Wheels
- Cryogenic Resistance Components
- Gasket Manufacture
- Gears - Fine Tooth
- High Performance Aerospace Components
- Insulating Bushes Spacers Sleeves
- Insulating Handles

- Piston Rings
- Precision Machined Parts
- Pulleys and Sheaves
- Punched Components
- Rotor Blades (compressor)
- Scraper Blades
- Seal Rings
- Wear Resistant Components

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 Ω	0.2
IR (Dry)	G Ω	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

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/>