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B12 Product Data Sheet

BSEN60893-3-4-PFCC201 & 203 B12 Medium Weave Phenolic Cotton Laminate SRBF

Material Details

Grade:	B12
Description:	Phenolic Cotton. Medium Weave SRBF
Comments:	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.
Specifications:	BSEN60893-3-4-PFCC201 & 203 (Which supersedes BS2572 F3 & F2). The closest NEMA equivalent to this specification is NEMA C
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
- Cams and Camfollowers
- Conveyor Wheels
- Cryogenic Resistance Components
- Gears - Coarse Tooth
- Gears - Medium Tooth
- Guide Plates and Star Wheels
- Heavy Duty Rollers
- Insulating Bushes Spacers Sleeves
- Insulating Handles
- Jigs and Fixtures

- Low Voltage Insulation
- Pipeline Insulation
- Piston Rings
- Pulleys and Sheaves
- Punched Components
- Rolling Mill Bearings
- Rotor Blades (compressor)
- Scraper Blades
- Slideways
- Thrust Washers
- Wear Resistant Components
- Welding Jigs

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	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 Ω	0.3
IR (Dry)	G Ω	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

Property	Unit of measure	Typical Value
Impact (Notched CHARPY)	kJ/m2	15

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/b12/