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B10S Product Data Sheet

B10S Fine Weave Cotton Phenolic Laminate

Material Details

Grade:	B10S
Description:	Phenolic Cotton. B10, phenolic cotton for higher temp & electrical applications
Comments:	Very fine weave cotton phenolic laminate with high electrical strength and low water absorption. Can be machined to a very fine finish for precision components.
Specifications:	BSEN 60893 - PFCC204The closest NEMA equivalent to this specification is NEMA LE
Body Colour:	Sandy Brown
Cover Colour:	Sandy Brown
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.8 - 150.0

Typical Applications

- Motor Brushes

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.35
Water Absorption	mg	80 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 Ω	16
IR (Dry)	G Ω	16
Electric Strength (Flat Rapid)	MV/m	7
Breakdown Voltage (Edge Step by Step)	kV	32
Tracking Index	V	110

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	145
Tensile Strength	MPa	80
Impact (Notched CHARPY)	kJ/m2	8.5

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/b10s/