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PE164 Product Data Sheet

PE164 Composite Epoxy Polyster Fabric

Material Details

Grade:	PE164
Description:	Epoxy Polyester fabric. Switchgear applications, 160 deg C
Comments:	Technolaque PE164 composites are manufactured from woven polyester cloth, treated with a high performance epoxy resin system. PE164 exhibits unique properties characteristic of the substrate and resin systems. The product contains no glass, and is relatively easy to machine. The exceptionally high electrical and mechanical properties combined with good abrasion resistance and excellent resistance to SF6, high impact resistance and tensile strength makes this product ideally suited to the manufacture of switchgear components. Technolaque PE164 incorporates a superior resin system to PE100, which increases the TG (DSC) to in excess of 160 deg C
Body Colour:	Cream
Cover Colour:	Cream
Finish:	Glossy
Size:	1220 x 1220 Thickness Range: 1.0 - 150.0

Typical Applications

- Chemical Resistance Components
- High Temperature Components
- High Voltage Insulation
- Mechanical Applications
- Rotor Coil Packings
- Switchgear Link Bars
- Switchgear Manufacture
- Wear Resistant Components

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.3-1.4

¥ 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	60000
IR (Dry)	G Ω	60000
Electric Strength (Flat Rapid)	MV/m	20
Breakdown Voltage (Edge Rapid)	kV	90
Tracking Index	V	600

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	200
Compressive Strength (Flat 20°C)	MPa	470
Tensile Strength	MPa	115

Thermal Properties

Property	Unit of measure	Typical Value
Tg (by DSC)	°C	>160

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/pe164/