

**Date Generated: Monday 23rd of February 2026****B1 Product Data Sheet****BSEN60893-3-4-PFCP206 Electrical Grade Phenolic Paper Laminate****Material Details**

|                        |   |
|------------------------|---|
| <b>Grade:</b>          | B1  |
| <b>Description:</b>    | Phenolic Paper. Electrical Grade SRBP   |
| <b>Comments:</b>       | <p>This grade was originally produced to meet the requirements of MOD (Navy DG Ships) It has excellent electrical strength both in air and immersed in oil and good mechanical properties, low water absorption and high Insulation resistance.</p> <p>Used in high and medium voltage applications including switchgear, terminal panels bus bar supports.</p> |
| <b>Specifications:</b> | BSEN60893-3-4-PFCP206 (Which supersedes BS2572 P3). The closest NEMA equivalent to this specification is NEMA XXX   |
| <b>Body Colour:</b>    | Brown   |
| <b>Cover Colour:</b>   | Sepia Brown   |
| <b>Finish:</b>         | Satin/Glossy  |
| <b>Size:</b>           | 1220 x 1220<br>Thickness Range: 0.8 - 75.0  |

**Typical Applications**

- Busbar Supports
- Coil Formers
- Electromagnetic Coil Insulation
- High Voltage Insulation
- Insulating Bushes Spacers Sleeves
- Insulating Handles
- Mechanical Applications
- Pipeline Insulation
- Precision Machined Parts

- Terminal Boards and Tag Strips
- Track Resistance

## General Properties

| Property              | Unit of measure   | Typical Value |
|-----------------------|-------------------|---------------|
| Density               | g/cm <sup>3</sup> | 1.37          |
| Water Absorption      | mg                | 70            |
| Flammability Category | --                | FH1           |

¥ 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             | 6             |
| Electric Strength (Flat Rapid)        | MV/m            | 14            |
| Electric Strength (Flat Step by Step) | MV/m            | 8.2           |
| Breakdown Voltage (Edge Step by Step) | kV              | 60            |
| Relative Permittivity @ 1 MHz         | --              | 5             |
| Dissipation Factor @ 1 MHz            | --              | 0.035         |
| Tracking Index                        | V               | 110           |

## Mechanical Properties

| Property                | Unit of measure   | Typical Value |
|-------------------------|-------------------|---------------|
| Flexural Strength       | MPa               | 190           |
| Tensile Strength        | MPa               | 100           |
| Impact (Notched CHARPY) | kJ/m <sup>2</sup> | 3.5           |

# Thermal Properties

| Property                    | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous   | °C              | 105           |
| Thermal Rating Intermittent | °C              | 120           |

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/b1/>