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## B4PQ Product Data Sheet

### Material Details

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|-------------------------|---|
| <b>Grade:</b>           | B4PQ. (Type: Paper Based Laminates - SRBP)  |
| <b>Description:</b>     | Phenolic Paper. Punching quality commercial grade   |
| <b>Comments:</b>        | A cold/warm punching version of B4, available in thickness up to 3mm. Widely used for punching small components, such as fluorescent lamp cap insulators, terminal strips, coil formers and washers. B4PQ can be supplied with black covers upon request. |
| <b>Specifications:</b>  | BSEN60893-3-4-PFCP201&PFCP207 The closest NEMA equivalent to this specification is NEMA XP.   |
| <b>Body Colour:</b>     | Dark Brown  |
| <b>Cover Colour:</b>    | Brown   |
| <b>Standard Finish:</b> | Satin/Glossy  |
| <b>Size:</b>            | 1220 x 1220 Thickness Range: 0.8 - 3.0 †  |

### Typical Applications

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- Terminal Boards and Tag Strips
- Precision Machined Parts
- Pipeline Insulation
- Mechanical Applications
- Low Voltage Insulation
- Jigs and Fixtures
- Insulating Bushes Spacers Sleeves
- Coil Formers

### General Properties

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| Property               | Unit of measure   | Typical Value |
|------------------------|-------------------|---------------|
| Density                | g/cm <sup>3</sup> | 1.35          |
| Water Absorption       | mg                | 66            |
| 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 □             | 0.2           |
| IR (Dry)                              | G □             | 0.2           |
| Electric Strength (Flat Rapid)        | MV/m            | 6             |
| Breakdown Voltage (Edge Step by Step) | kV              | 40            |
| Tracking Index                        | V               | 110           |

## Mechanical Properties

| Property                | Unit of measure   | Typical Value |
|-------------------------|-------------------|---------------|
| Flexural Strength       | MPa               | 188           |
| Tensile Strength        | MPa               | 120           |
| Impact (Notched CHARPY) | kJ/m <sup>2</sup> | 4.5           |

## Thermal Properties

| Property                    | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous   | °C              | 100           |
| Thermal Rating Intermittent | °C              | 120           |

## Notes

- Datasheet Issue No. 1

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/b4pq/>