

# Laminated Insulations & Plastics Ltd.

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## Technical Data Sheet

### SRBP Grade P3

First class electrical insulator, good mechanical properties, low water absorption, machines well and can be hot punched. Thermal class "E".

#### Physical Properties

|  |              | Unit               | Value             |
|--|--------------|--------------------|-------------------|
| Cross Breaking strength                        |              | MPa                | 165               |
| Impact strength, notched charpy                |              | kJ/ m <sup>2</sup> | 3.5               |
| Compressive strength                           | Flat wise    | MPa                | 350               |
|  | Edge wise    | MPa                | 200               |
| Resistance to flat wise compression            |              |                    | 1.2               |
| Shear strength, flat wise                      |              | MPa                | 100               |
| Water absorption                               | 1.6mm        | MG                 | 50                |
| Electrical strength in oil @ 90°C              | 1.6mm        | %                  | 14.5              |
|  | 3.0mm        | MV/m               | 13.0              |
|  | 6.0mm        |                    | 8.8               |
|  | 12.0mm       |                    | 6.1               |
| Electrical strength edgeways in oil @ 90°C     |              | kV                 | 55                |
| Insulation resistance after immersion in water |              | M.ohms             | 10 <sup>8</sup>   |
| Loss tangent @1MHz                             |              | Tan                | 0.04              |
| Permittivity @ 1MHz                            |              |                    | 5.2               |
| Comparative tracking index                     |              | V                  | 110               |
| Relative Density                               |              |                    | 1.35              |
| Maximum working temperature                    | Continuous   | °C                 | 100               |
|  | Intermittent | °C                 | 120               |
| Standard sheet size                            |              | mm                 | 1220 <sup>2</sup> |
| Standard thickness range                       |              | mm                 | 0.8 / 75          |

Colour: Red/Brown

Specification to BS 2572 type P2/1

*These are typical average values and do not constitute a specification. It is the responsibility of the customer to assess the suitability of the product for use.*

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