

# DATA SHEET



**Technical Properties: PLYSOLENE-PIB**

**Construction:** Polyisobutylene (PIB) sheet

**PLYSOLENE-PIB** is produced from high molecular weight polyisobutylene, modified to achieve optimum properties. **PLYSOLENE-PIB** is the ideal waterproofing membrane for pipework and ventilation ductwork and has outstanding properties over a wide temperature range. It is used globally in oil refineries, chemical works and power stations and the preferred material for many contractors because it is easy to use, demanding joints and difficult shapes are simply cut and welded on site. **PLYSOLENE-PIB** sheeting can be installed using solvent welding. No special adhesives are required.

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| Characteristics              | Value*    | Unit*             | Test method*                  |
|------------------------------|-----------|-------------------|-------------------------------|
| <b>PHYSICAL PROPERTIES</b>   |           |                   |                               |
| Density                      | 1.6       | g/cm <sup>3</sup> |                               |
| <b>MECHANICAL PROPERTIES</b> |           |                   |                               |
| Tensile strength             | 2.5       | Nmm <sup>2</sup>  |                               |
| Resistance to impact         | 250       | mm                |                               |
| Elongation at break          | 300       | %                 |                               |
| Vapour permeability          | 38°C      | 5                 | g/0.001in/m <sup>2</sup> /day |
|                              | 90% RH    | 0.19              | m <sup>2</sup> /24hrs         |
| <b>THERMAL PROPERTIES</b>    |           |                   |                               |
| Temperature range            | -34 to 72 | °C                |                               |

\*tested on raw material (natural colour)

This technical data has been developed by Plysolene Ltd in good faith. This data is non-binding and does not represent a material specification or assurance of specific properties. We reserve the right to change or update these specifications at any time.

Further processing and use of the product can have various impacts on the product. Therefore, Plysolene Ltd does not guarantee or warrant the fitness or suitability of products for any purpose intended by the purchaser or any third person and shall have no liability whatsoever in this respect. The purchaser has the obligation to test the product and determine themselves if the product is fit for the intended use.

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# CHEMICAL RESISTANCE



|                                       | Resistant | Semi-resistant | Not resistant | Swells | Soluble |
|---------------------------------------|-----------|----------------|---------------|--------|---------|
| Acetic acid                           | Y         |                |               |        |         |
| Acetone                               | Y         |                |               |        |         |
| Animal and Vegetable Fats and Oils    |           |                |               | Y      |         |
| Aqueous Caustic Lime                  | Y         |                |               |        |         |
| Aqueous Hydrosulphite                 | Y         |                |               |        |         |
| Benzene                               |           |                |               |        | Y       |
| Benzine                               |           |                |               |        | Y       |
| Bromine (liquid, gaseous or aqueous)  |           |                | Y             |        |         |
| Butyl Acetate                         |           |                |               | Y      |         |
| Carbon Bisulphide                     |           |                |               |        | Y       |
| Carbon Tetrachloride                  |           |                |               |        | Y       |
| Chlorine (liquid, gaseous or aqueous) | Y         |                |               |        |         |
| Chlorobenzene                         |           |                |               |        | Y       |
| Chromic Acid                          | Y         |                |               |        |         |
| Copper Sulphate Solutions             | Y         |                |               |        |         |
| Cyclohexane                           |           |                |               |        | Y       |
| Diesel                                |           |                |               | Y      |         |
| Ethanol                               | Y         |                |               |        |         |
| Ether                                 |           |                |               | Y      |         |
| Ethyl Acetate                         | Y         |                |               |        |         |
| Ethylene Glycol                       | Y         |                |               |        |         |
| Formic Acid                           | Y         |                |               |        |         |
| Glycerine                             | Y         |                |               |        |         |
| Hydrochloric Acid                     | Y         |                |               |        |         |
| Hydrogen Peroxide                     | Y         |                |               |        |         |
| Methanol                              | Y         |                |               |        |         |
| Methyl Acetate                        | Y         |                |               |        |         |
| Methylene Chloride                    |           |                |               |        | Y       |
| Mineral Oil                           |           |                |               |        | Y       |
| Napthalene Sulphuric Acid             | Y         |                |               |        |         |
| Nitration Acid                        |           | Y              |               |        |         |
| Nitric Acid (concentrated)            |           | Y              |               |        |         |
| Paraffin Wax and Liquid               |           |                |               |        | Y       |
| Petrol                                |           |                |               | Y      |         |
| Potassium Permanganate                | Y         |                |               |        |         |
| Sodium Chloride                       | Y         |                |               |        |         |
| Solvents E13/E14                      | Y         |                |               |        |         |
| Sulphonic Acid                        | Y         |                |               |        |         |
| Sulphuric acid                        | Y         |                |               |        |         |
| Toluene                               |           |                |               |        | Y       |
| Xylene                                |           |                |               |        | Y       |

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