

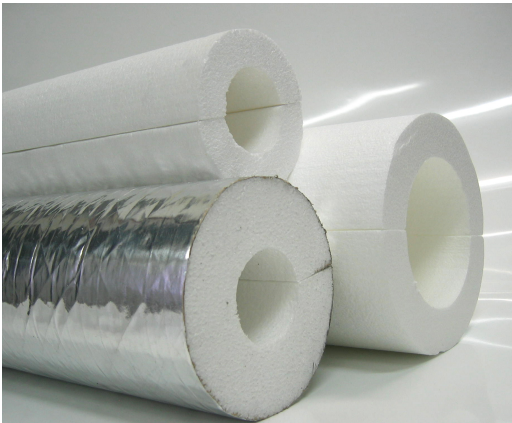


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## Polystyrene SPI



Insulock supplies Polystyrene SPI where suitable as the ideal insulation to use in conjunction with Insulock PVC cladding for applications up to 75°C. Combining the two products creates a complete off the shelf, easy to install, UV resistant vapour sealed insulation system.

Polystyrene Sectional Pipe Insulation (SPI) is a closed cell light weight cellular plastics material. It gains exceptional insulating properties from the stabilised air trapped within its cellular structure. Polystyrene is one of the most resistant to the adverse effects of moisture. Even when force saturated to a moisture content ten times its dry weight , Polystyrene has been found to maintain 80% of its R value.

Polystyrene is able to withstand the effects of temperature cycling, thereby providing long term performance in low temperature applications. The K value of Polystyrene decreases at lower average mean temperatures, hence its popularity and success in - zero applications.

Polystyrene is available in all common sizes available for Copper, Steel and Plastic and with varying wall thickness.

### Physical Properties: SL Grade

Nominal Density (kg/m <sup>3</sup> )	13.5
Compressive stress at 10% deformation (min)	70 kpa
Cross breaking strength	135 kpa
Rate of water vapour transmission (max) measured parallel to rise at 23°C	630 µg/m <sup>2</sup> s
Dimensional stability of length, width, thickness (max) at 70°C, dry condition 7 days	1.0%
Thermal resistance (min) at a mean temperature of 25°C (50mm sample)	1.13 M <sup>2</sup> /K/W
<b>Flame Propagation characteristics:</b>	
- median flame duration; max	2 seconds
- eighth value; max	3 seconds
- median volume retained;	18 %
- eighth value; min	15%

The figures contained in this brochure are not standard but merely representative values from tests KSM3014. Insulock and the manufacturer makes no warranty or recommendations as the use of Polystyrene SPI Insulation for a particular purpose. Further, data contained herein are typically laboratory results only and do not represent a guarantee of performance in any application. It is the customers responsibility to satisfy themselves that the product is fit for the purpose for which they intend to use it.