

# Unipoly® SL grade

## Technical Data

Unipod® Expanded Polystyrene, Unipoly® SL grade, is a cellular plastic material that is strong, but has very low density. It is made in block and sheet form and is produced in Australia to meet Australian Standards, AS1366, Part 3. Unipoly® is tested against these minimum requirements.

### Quality Assurance

Unipoly® SL Grade exceeds the requirements of AS1366, Rigid cellular plastic sheets for thermal insulation Part 3: Rigid Cellular Polystyrene- Moulded.

### Size and Shape

Unipoly® SL grade is produced in block form and sheet form to meet customer requirements. Standard sizes:

- 1.2 metre width
- 2.5, 3.0, 5.0, 6.0 metre lengths
- 20 mm up to 1.2 metre thickness

Other sizes and fabrications can be provided by Unipod®.

### Additional Information

Please consult Unipod® for design considerations, and technical information on the full range of products available.

Physical Property	Test Method	Requirement	Performance
Nominal Density		13.5 kg/m <sup>3</sup>	13.5 kg/m <sup>3</sup>
Compressive Strength at 10% deformation	AS 2498.3-1993	70 kPa (min)	Pass
Cross Break Strength	AS 2498.4-1993	135 kPa (min)	Pass
R Value (thermal resistance based on a 50mm thick sample)	AS/NZS 4859.1-2008	1.13 m <sup>2</sup> K/W (min)	Pass
Flame Propagation	AS 2122.1-1993	2 SD (max)	Pass
Median flame duration			
Eighth value		3 SD (max)	Pass
Median volume retained		18 % (min)	Pass
Eighth value		15% (min)	Pass
Dimensional Stability – length, width, thickness	AS 2498.6-1993	1 % (max)	Pass
Water Vapour Transmission, measured parallel to rise at 23°	AS 2498.5-1993	630 ug/m <sup>2</sup> s (max)	Pass