

## Kevothermal™ Vacuum Insulation Panel (VIP) Technical Data Sheet

|                                     | <u>Metric</u>          |
|-------------------------------------|------------------------|
| Length <sup>1</sup>                 | 100 mm – 1500 mm       |
| Width <sup>1</sup> ,                | 100 mm – 1000 mm       |
| Thickness <sup>2</sup>              | 6 mm – 50 mm           |
| Thermal Conductivity <sup>9</sup>   | 0.0038 W/mK            |
| Working Temperature <sup>6</sup>    | -100 to 60 °C          |
| Thermal Shrinkage                   | <1% @ 60 °C            |
| Density <sup>7</sup>                | ≈180 kg/m <sup>3</sup> |
| Compressive Strength (@ 10% strain) | 186 kPa                |
| Compressive Modulus                 | 1862 kPa               |
| Resistance to chemicals             | Excellent              |
| Recyclability                       | Excellent <sup>8</sup> |

1. Standard tolerance for length and width is +/- 3mm

2. Standard tolerance for thickness is +/- 1.5mm

3. At a mean 20 °C. As for all insulation, thermal performance is a function of temperature. For other temperatures, please contact Kevothermal Limited for specific values.

6. Upper limit is fixed by the barrier material used, not the insert thermal stability. Using higher temperature film will result in higher continuous temperature. For applications above 80°C please consult us.

7. Compressed core density. Actual VIP density is a function of thickness.

8. >98% of the mass of the panel can be recycled to create a new panel with performance equal to virgin material.

9. K value measured to ASTM C518, EN 12667 in centre of panel (  $k_{cop}$  ), for effective K values (  $k_{eff}$  ) please ask.