

## Kingspan Threshold VIP Sustainability

### Product Life

Kingspan Insulation has and will continue to put in efforts to develop our proprietary advanced Vacuum Insulation Panel (VIP) barrier films that provide minimal decrease in performance per year while in use. We believe that the barrier film we developed is a world leader. Many VIP-based packaging systems are designed to be reusable and have reusable components. Our Threshold VIP can be used in these types of packaging systems.

### Product Manufacturing Efficiency

The entire manufacturing process (including supplied components) has been designed around minimizing scrap. The core material production scrap is recycled back into the production line whenever possible, resulting in virtually no net scrap generation.

### Product Thermal Performance

The Threshold VIP performs at an R-value of  $R_{cop}=50/\text{inch}^1$ . This results in a much thinner VIP compared to conventional insulation materials used to reach the same performance.

### Product Recyclability

The custom core material (typically up to 95% of the VIP weight) is 100% glass fiber. We encourage panels to be returned to us at the end of its life. Typically 100% of the core can be reused to make a new panel of the same size. If the core is substantially damaged, it can still be recycled as high quality glass at facilities which can accept the materials.

### Product Energy Savings

A high thermal resistance allows refrigerator and scientific freezers to be designed for energy efficiency. It also allows for smaller more efficient pharmaceutical shippers as compared to shippers which use other materials. This results in lower energy used in shipping during the life of the product.

<sup>1</sup> R-value at center of panel



Please scan the QR code for the most recent product information

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