

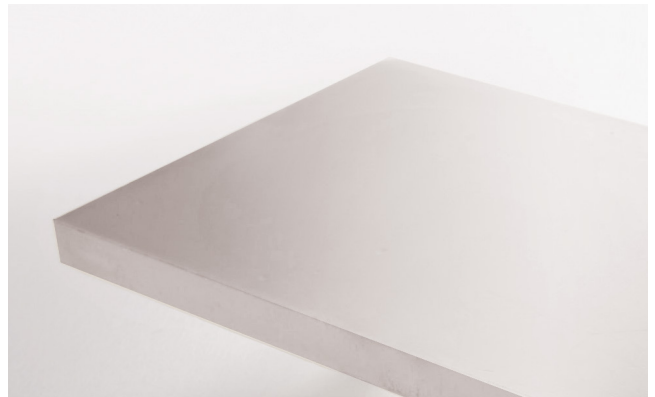


ThermaVIP+™

The cost effective insulation for temperature controlled packaging

ThermaVIP+ reinforced vacuum insulation panels provide the ideal solution for Temperature Controlled Packaging (TCP). Modular, lightweight, compact and robust, ThermoVIP+ panels deliver highly efficient thermal control over extended transport time. Their slim format ensures high internal volume to maximize shipment cost-efficiency.

ThermaVIP+ panels are compliant to ISTA 7D & ASTM D3103, and validated for internal temperatures of 15-25 °C, 2-8 °C and -25--15 °C for various transit time periods, including 120+ hours. ThermoVIP+ products maintain performance over repeated use, thanks to a resilient, encapsulated construction.



ThermaVIP+ panels are ideal for re-usable cold-chain packaging for pharmaceutical products, perishable foods, industrial products, fine arts and more.



Thermal
packaging



Long-term temperature-
controlled shippers and
containers

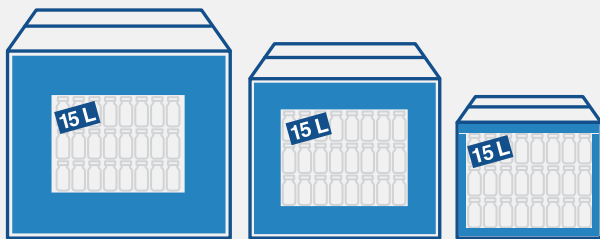
General specification, typical values

ThermaVIP+

Value	ThermaVIP+ VIP Panel	Test Methods
Color	Silver	
Initial R value	≥ 8 [m ² K/W] ≥ 45 [ft ² °F h/BTU]	ASTM C518-10, Testing temperature: 22.5 °C
Initial thermal conductivity	≤ 0.0042 [W/mK]	ASTM C518-10, Testing temperature: 22.5 °C
Thickness	30 mm +/-10 %	
Temperature range during application	-80 °C to +100 °C	

Space savings comparison

Air shipment, 72 hours, 2-8 °C - 15 L payload volume



Polystyrene

Polyurethane

ThermaVIP+

Internal payload volume comparison

Air Shipment, 72 hours, 2-8 °C - 115 L outer volume



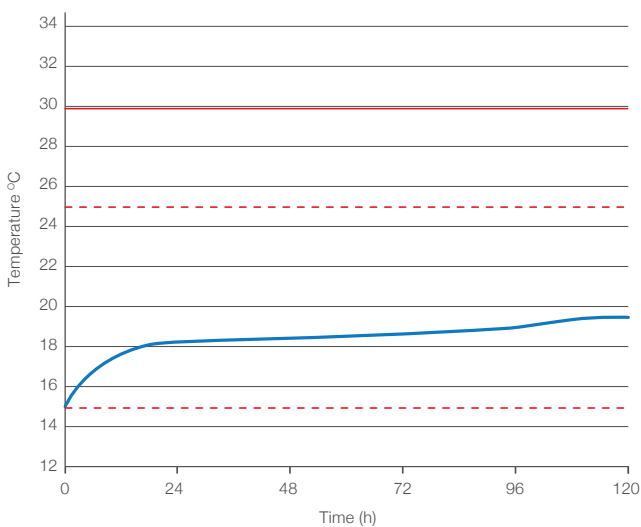
Polystyrene

Polyurethane

ThermaVIP+

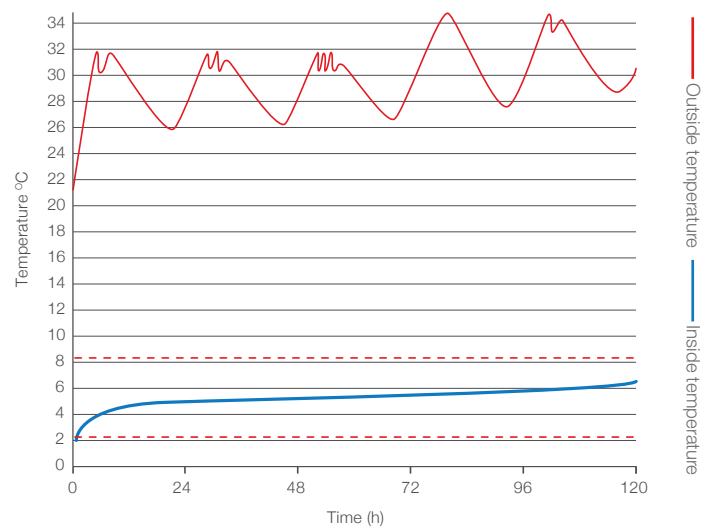
Thermal insulation performance validation

Thermal performance of ThermaVIP+ box at controlled room temperature (15-25 °C)



External volume - 40.7 L, Internal volume - 22.6 L
PCM quantity - 4 x1 L, Payload volume - 16.5 L

Thermal performance of ThermaVIP+ box at refrigerated temperature (2-8 °C)



External volume - 114.8 L, Internal volume - 76.4 L
PCM quantity - 12 x1 L, Payload volume - 50 L

Benefits of ThermaVIP+

Space-saving high performance

Reduction of up to X7 in external volume compared to conventional insulation

Robust and reliable

Enhanced mechanical strength prevents vacuum loss caused by damage

Customizable

Diverse panel sizes and thicknesses

Cost-effective

Premium performance, competitively priced

Multi-use packaging

Sturdy, reusable, re-shippable TCP for closed-loop and open-loop shipping systems

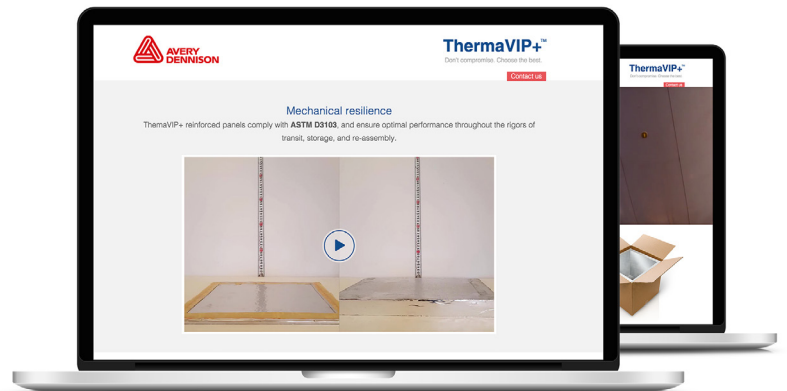
Easy assembly

Simple, time-saving modular panel box construction

Mechanical resilience

ThermaVIP+ reinforced panels comply with ASTM D3103, and ensure optimal performance throughout the rigors of transit, storage, and re-assembly.

[Click here to watch the video](#)



Use ThermaVIP+ panels to upgrade your existing cold-chain packaging, or develop with us customized solutions.

Contact: thermavip@eu.averydennison.com | thermavip.com

All information is believed to be reliable and accurate. However, the furnishing of such information and comparisons is for reference purposes only and does not constitute a warranty of any kind. Actual product performance should always be tested for fitness-for-use.

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