

TempGuard™

Temperature Assurance Solution

Curbside Recyclable
Thermal Insulation
For Shipping
Perishable Products



Ready Meal Market Temperature Assurance Challenges

Our interactions with the Ready Meal industry have illustrated that companies such as yours face the following challenges when it comes to assuring the temperature of your ready meal packs.



Customer Dissatisfaction

Temperature assurance products like polystyrene can be easily damaged and hard to clean. This could result in bad customer experiences. Your customer will associate this bad experience with your brand.

Furthermore, polystyrene and Wool Cool require cleaning and removal of the LDPE sleeve for them to be re-used. They also rely on the customer remembering to hand it back to the courier network in good condition.



Government Regulations

Many states in Australia are considering banning polystyrene foam packaging. Australia creates and consumes 45,000 tonnes of EPS each year, and with China refusing to accept our recycling, our landfill issues are on the rise.

Supermarkets in New Zealand banned their suppliers from providing food in EPS from November 2018, and it is only a matter of time before that same mandate applies in Australia.



Rising Costs

Rising warehouse and labour costs put a strain on emerging markets like the Ready Meal market. While polystyrene is cheap to use, it can lead to added costs in the supply chain. For example, maintaining a returns program adds extra shipping costs.



Sealed Air's TempGuard™, winner of the AmeriStar Award for Sustainable, is a curbside recyclable packaging solution developed for shipping pre-packaged, temperature-sensitive goods. The product's thermal insulation is constructed from heavy-duty kraft paper containing a uniform inner padding, which provides superior insulating properties.



Product sizes

Small



Pad sizes:
265mm x 1080mm
265mm x 1080mm

Carton Size:
380mm (L) x 240mm (W) x 240mm (H)

Medium



Pad sizes:
265mm x 1080mm
535mm x 900mm

Carton Size:
480mm (L) x 280mm (W) x 240mm (H)

Large



Pad sizes:
570mm x 1025mm
260mm x 1320mm

Carton Size:
550mm (L) x 360mm (W) x 246mm (H)

TempGuard™ Benefits



Unlike bulky substitutes such as EPS, which has 30mm walls, TempGuard™ flexible liner pads are only 14mm thick and can maximise the internal space in your package. This also means that you can decrease the size of your carton, **improving the cube of your product for better freight efficiency.**



TempGuard™ liners absorb moisture **reducing the condensation on products.**



TempGuard™ is made from **100% recycled** newspapers, therefore can be placed directly in your recycling bins along with the box.



TempGuard™ liners can provide **cushioning and impact protection** for your products during transit.



TempGuard™ liners are **suitable for eco-conscious consumers** like vegetarians and vegans – which are both growth categories for this market.

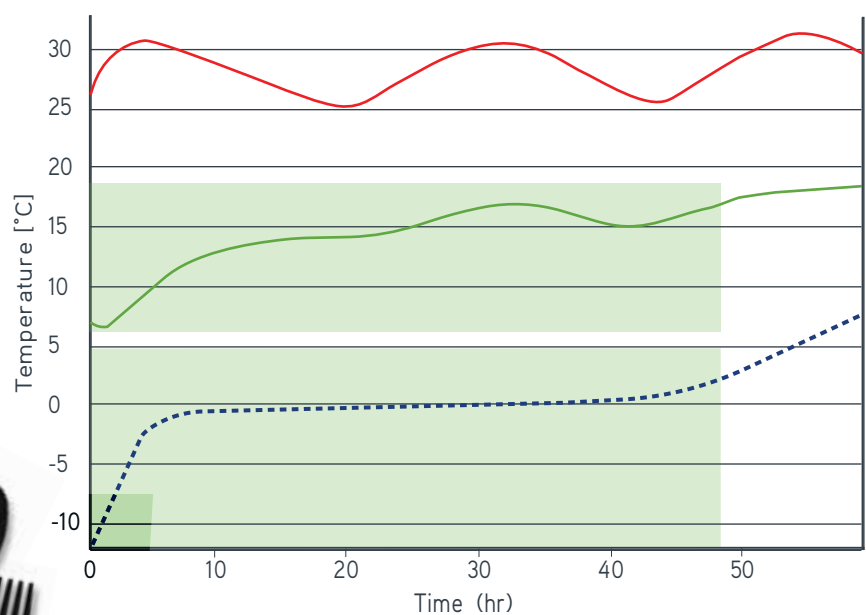


Food Waste Reduction

TempGuard™ has superior insulation properties that maintain temperatures for 24 to 48 hours. This capability ensures perishable items arrive fresh, and food waste is reduced.



Meal Kit Delivery – ISTA 7E Hot Profile



— Chamber — Box 1 Refrigerated - - - - Box 1 Frozen





Elevate your customers e-commerce experience with Sealed Air.

Packaging for successful e-commerce can be a complex and daunting process. That's why Sealed Air's Innovation and Development teams are constantly designing and testing packaging solutions that meet the most stringent requirements for regulatory safety and compliance. These innovative solutions not only offer consumer-friendly conveniences like freezer-ready and leak-proof packaging, they also offer you the extended case life and superior protection you need.

When you partner with Sealed Air, you'll experience the seamless efficiency and effectiveness only possible when primary and secondary packaging experts are under one roof. And, our total system approach delivers viable, repeatable, and sustainable packaging solutions that ensure positive consumer experiences.



Other Sealed Air Temperature Assurance Solutions

	TempShield™ Bubble	TempGuard™	TempPreserve™ PUR	KevoThermal® VIP
				
Benefit	Low cost thermal solution for short duration shipments	100% Recyclable solutions offering very good thermal properties for a sustainable approach	Good insulative material that can be fabricated or engineered on site or shipped in flat	Excellent thermal protection for high value packaging solutions
R-Value	1.11	3.9	5-7	40
Est. Shipping Days	12-24 hours	1-2 days	1-3 days	1-5 days
Material Sold in This Form	Sold in sheets, liners, and bags	Designed as A&B pad or cross wrap pattern	Can be produced on site or pre-fabricated in a uni body cooler design, or as an A/B pad that ships flat	Produced in panels, panels are then constructed together to create cooler
Target Market	Low	Low to Medium	Medium to High	Higher

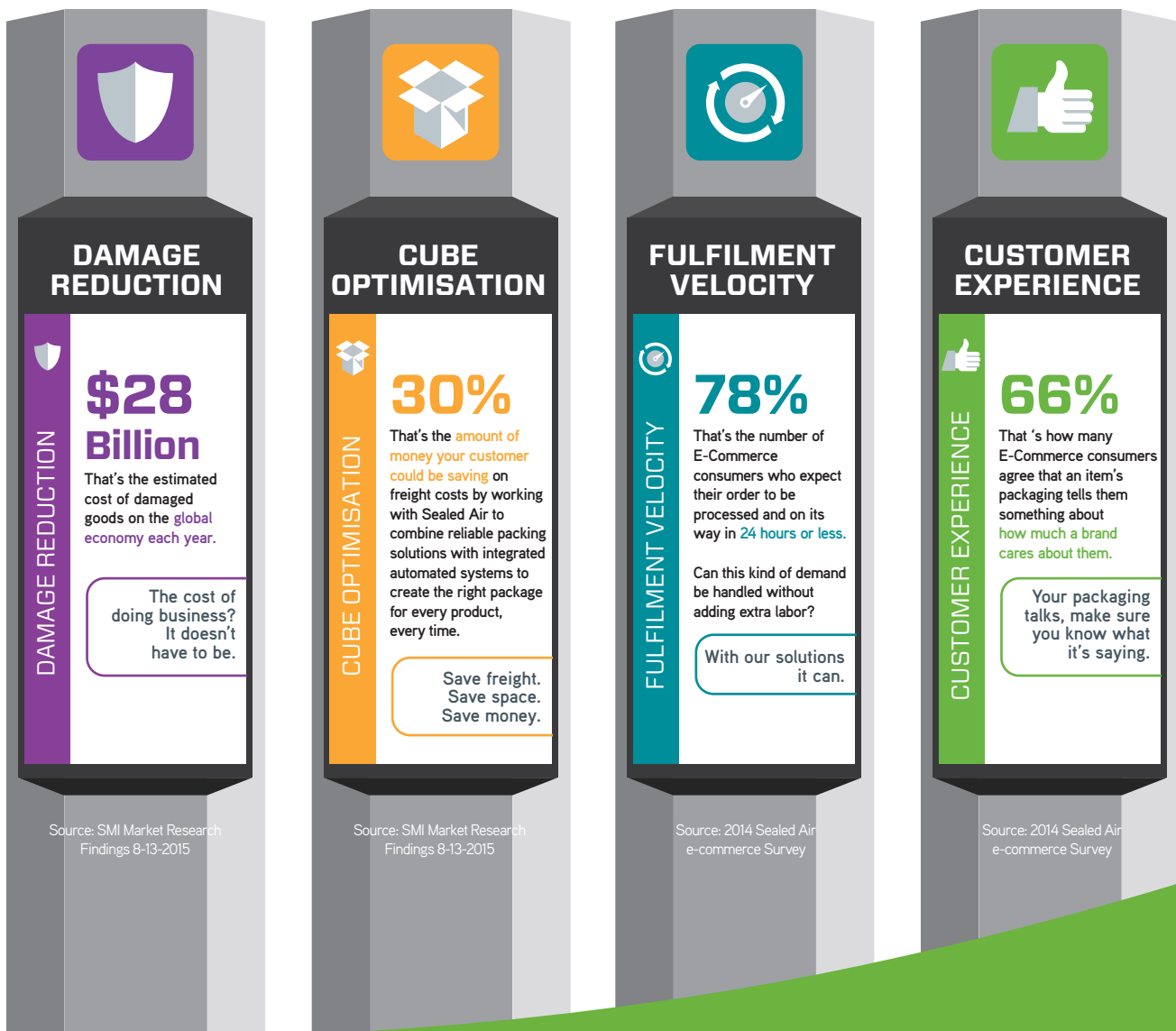
* Most EPS shippers have a R Value of 4.10

Our four pillars

Our commitment to sustainability and innovation takes the form of the four key pillars below.

Our commitment to damage reduction means that we ensure that the products and materials needed to make the world work are protected throughout their distribution journey. It means a smaller carbon footprint for every item (to ship and to return and to ship again), and it means that items don't end up in a landfill because they were unrecoverable.

We put an enormous amount of effort, knowledge and engineering into designing what we believe to be the "perfect package" solution for every product – and the perfect solution is one that takes up minimal space, costs less to ship, uses less material to create, and still protects the item inside.



We create a world that works better by eliminating waste throughout the global supply chain including wasted material, energy, space, time, labour, and money. Products protected by Sealed Air packaging solutions ship faster and arrive safer because they're backed by decades of powerful data science and unmatched engineering expertise.

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