

Chill Buddy®

Cool As You Like...

Temperature Controlled
Packaging Solutions



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Introduction

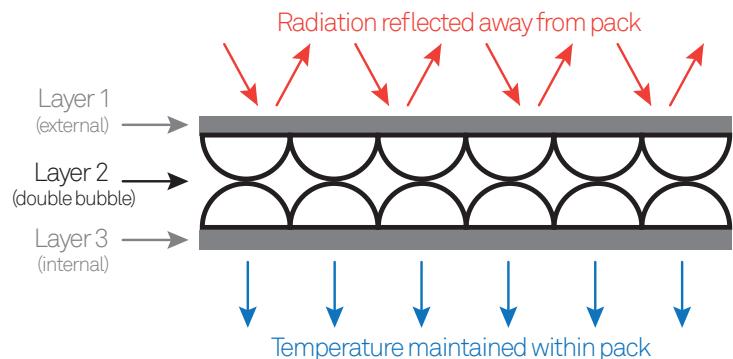
Chill Buddy is a metalised dual layered insulating material which helps to prevent the transfer of heat without using mechanical apparatus. It is flexible yet semi-rigid and therefore can be folded to many 3D design formats, from boxes and carriers to shrouds for pallets and roll cages.

The highly durable Chill Buddy is an ideal insulation solution for re-useable applications and is also suitable to be wiped clean. For our end users within the food and catering sector we recommend that reusable solutions in direct contact are replaced at a maximum lifetime of three months to help ensure hygiene of the contents.

How does it work?

The Chill Buddy material acts in three ways to ensure your product is thermally and physical protected during shipment.

Layer 1 – Reflective layer (99% reflective) deflects radiating heat from the environment and serves as a waterproof barrier to prevent external liquid contamination.



Layer 2 – Dual core bubble layer provides barrier-air-sealed pockets which act as an insulator whilst affording structural rigidity to the pack.

Layer 3 – Reflective layer (99% reflective) maintains the required temperature inside the pack.

Applications

Chill Buddy applications range from; Tote Box Liners for in-store and home-delivery operations, Rigid Pods facilitating watertight and robust handling and Shrouds for roll-cages and pallets.



Suitable for chilled, frozen or hot applications!



Retail Pods

Chill Buddy Pods are particularly suitable for home delivery of perishable products where temperature integrity is vital.

Pods can be custom sized to specific user requirements thereby minimising material usage, maximising product protection and ensuring the most economical solution.

Pods are proven to extend the chill chain life of products considerably compared to EPS and corrugate packaging solutions.



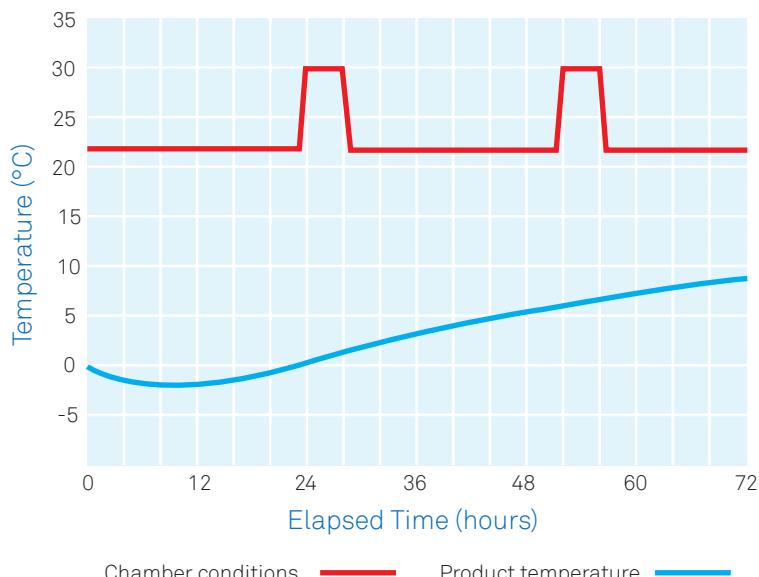
Key Features

- Ultra-lightweight
- 5mm thick and takes up much less space than comparable EPS solutions
- Controlled tests have proven that Chill Buddy pods can be more effective at temperature control than equivalent EPS solutions
- Chill Buddy is waterproof and therefore offers superior hygienic performance over EPS or corrugate packaging solutions
- Collapsible and supplied flat packed for efficient storage.



Simple locking tab assembly

Average temperature conditions within a Chill Buddy Pod containing chilled food products and ice as the cooling medium in "summer" conditions



Shrouds

Chill Buddy Roll Cage and Pallet Shrouds assist retail distribution fleet optimisation by enabling chilled deliveries to unmanned stores outside normal operating hours, safe in the knowledge that the goods will remain in temperature for an extended period of time. Shrouds are custom built to any size roll cage or pallet and therefore can be supplied in small order quantities.

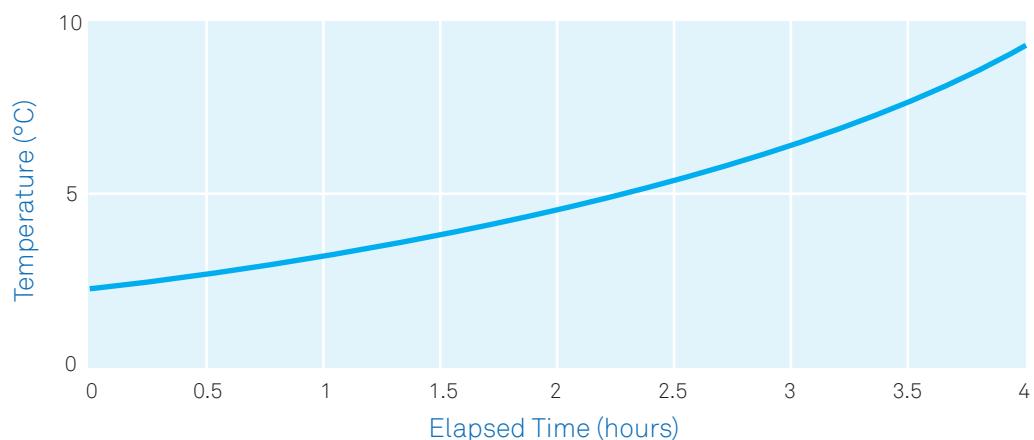
Shrouds are also used by perishable manufacturers and producers to maintain the chill chain of sensitive goods during handling, loading/unloading operations and other scenarios where goods are required to be kept outside of direct refrigeration.



Key Features

- Ultra-lightweight and therefore has little effect on vehicle payload
- 5mm thick and takes up much less space than comparable shroud solutions – folding flat when not in use
- Hard wearing and can withstand the rigors of high intensity distribution operations
- Provides an additional security layer preventing unwanted access to the contents

Temperature conditions within a Chill Buddy Shroud containing chilled food products at +3°C. Temperature inside remained within FSA temperature threshold of +8°C for more than 3 hours in ambient conditions



Bags

Custom designed bags are just one of the ways in which retailers are using Chill Buddy to manage their temperature controlled supply chain needs. Current designs include shopping bags, picnic hampers and drinks coolers. Applications have included; bags for maintaining chilled temperature for several hours up to several days at both winter and summer conditions.

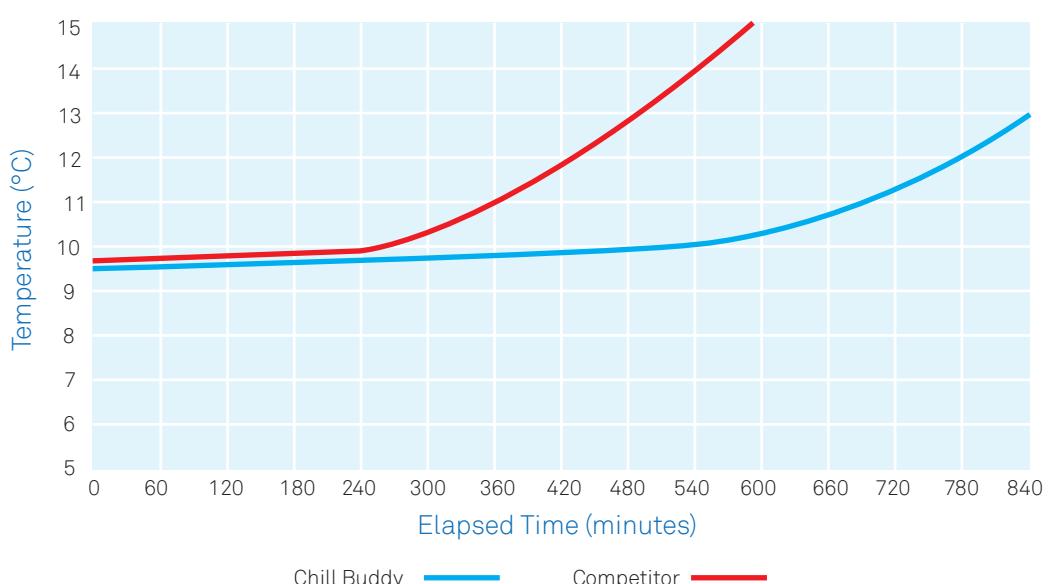
Application

The wide application range of Chill Buddy insulated bags is dependent on customer needs. This can include functionalities such as:

- Single use • Antimicrobial
- Multi use • Water tight
- Fabric



Average temperature conditions within insulated shopping bags containing a 400g ice block



Rigid Pods

Rigid Pods are designed for heavy duty, robust and reusable applications. The solid base is made from a durable and cleanable corrugated polypropylene which can withstand the rigorous handling throughout many supply chains. The base can also be designed specifically for water tight or draining use.

Rigid Pods have a number of secondary applications including: Can coolers, Food waste bin, Toiletries bin, Small picnic cooler, Herb garden and Frozen fish tray to name a few.



Key Features

- The pod base construction uses a sealed rigid box to increase the overall structural rigidity and durability for its secondary uses
- The base can be designed to be leak proof to increase the secondary usage applications
- The base can be readily printed with branding or decoration
- Bases and lids are separate components which both fold flat when not in use. This increases the ease of access and increases the secondary use applications



Fresh Produce

Chill Buddy solutions are particularly suitable for the delivery of flowers and are another way in which Chill Buddy is enhancing the lifespan of perishable items.

Chill Buddy reduces the risk of loss of plants in transit due to its insulating performance which protects the temperamental and delicate properties of the plants in the transport environment. Current designs include: buttonhole holders, bouquet boxes and carriers and presentation boxes for weddings.



Key Features

Fresh produce designs can include functionality such as:

- Effective insulators
- Reflect radiant heat
- Waterproof
- Reusable & Cleanable
- Exhibit a premium finish



Poinsettia Distribution – Case Study

A national grocery and produce retailer with locations countrywide must maintain a set level of ambient temperature for extremely temperamental and delicate Poinsettia plants. Generally, a significant percentage of plants are lost or rendered unsalable each campaign due to the effects of inadequate temperature control provision.

Chill Buddy Recommendation

Chill Buddy recommended its high performance Thermal-Shield stitched wing pallet/cage cover, custom built to fit precisely over the client's laden cages/pallets. The covers would provide an exceptional level of thermal protection from the inherent elevated and sometimes extreme temperature fluctuations and spikes experienced during transportation.

Chill Buddy applications are substantially resilient, suitably ideal for the clients multiple re-use business requirements.



Results and Conclusions

The retailer determined that the Chill Buddy solution provided stable favorable temperature maintenance inside the covers/shrouds during the timescale required.

Benefits and Advantages

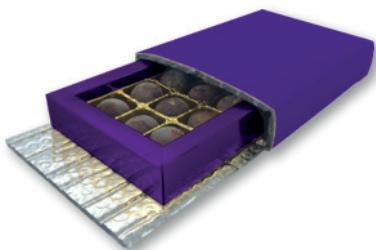
Employing Chill Buddy applications the retailer has almost entirely eliminated loss of plants in transit resulting in:

- Guaranteed outstanding product condition promoting extended shelf life
- Excellent display presence and attraction
- Significant cost savings through dramatic reduction in product waste negating over purchasing to compensate
- Internal improvements in efficiency and distribution management
- Maximisation of sales potential and adequate stock to meet customer demand and retention



Custom Designs

Chill Buddy is converted using a die cutting process which enables custom designs with variations to size, shape and application. Examples of previous projects are pictured below:

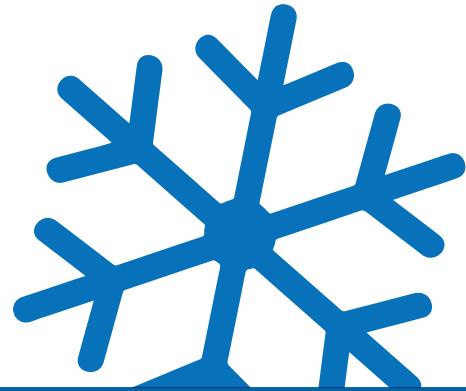


Standard Pod Range

Name	Size (mm)	Minimum Order Quantity*
Retail Pod Extra Small	170 x 150 x 100	5,000
Retail Pod Small	260 x 230 x 130	5,000
Retail Pod Medium	285 x 415 x 155	5,000
Retail Pod Large	490 x 285 x 230	5,000
General Shroud	1420 x 595 x 460	5
Carry Out Bag	300 x 360 x 125	1,000

*Recommended minimum order quantity but can produce fewer on request.





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