

**Tyvek**<sup>®</sup>  
For greater good.™



**Trusted protection  
for precious cargo**

**DUPONT**™

# Tyvek® cargo covers protect your products and your bottom line

DuPont™ Tyvek® cargo covers were designed to comply with the high standards of the pharmaceutical industry, and have been adopted by perishables distributors, 3PLs and airlines worldwide because they offer proven performance with real benefits from a trusted brand.

## Tyvek® cargo covers for pharmaceuticals

Ideal for controlled room temperature (CRT) products

Extend the duration of 2°C to 8°C cold chain solutions

Validated by manufacturers for use in EU GDP applications

## Proven protection

Tyvek® cargo covers are specifically engineered to address the threat of cold chain breaks during air transit—when your products are at the greatest risk for temperature excursions. Validated in a wide variety of applications worldwide, Tyvek® cargo covers are an ideal pallet covers solution because they provide:



Excellent protection against ambient temperatures (hot and cold)



Durability to protect against physical hazard intrusion and adverse weather conditions



Breathable barrier that allows gases, vapors and condensation to pass through



Ease of use—install or remove in one minute or less

## What makes Tyvek® different

Tyvek® brings advanced material science and a unique balance of properties to cold chain protection.



External layer of Tyvek® high-reflectivity fabric protects products from solar exposure



Low-emissivity metallized layer provides enhanced temperature control



Lightweight design for easy handling and reduced freight costs



Available worldwide with technical support from one of the most respected global brands



Wide range of traceable industry-standard and customizable sizes for standard pallets and ULDs used in air freight that can be used with or without a separate base cover



Reduced storage space required—these lightweight, tear-resistant covers fold easily into a compact size



Built-in elastic band for ease in securing the cover



Recyclable for reduced environmental impact†



Recommended for pharmaceuticals



Save money—improve your bottom line by reducing costs associated with labor for installation; losses; excursion management; secondary packaging and shipping; and storage space

†The Tyvek® recycling program is now available in the United States and Canada.

# Tyvek® cargo covers provide excellent “all-in-one” protection against temperature excursions

When it comes to managing the risk of temperature excursions throughout the cold chain, protecting your products against ambient temperature extremes is important. However, solar

radiation may be the most critical—and under-appreciated—threat you face. That’s because solar radiation is the leading cause of high-temperature spikes on the tarmac.

## Are you focused on the right R? Reflectivity or R-value?

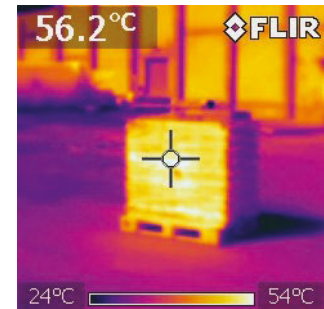
Tyvek® cargo covers offer multi-threat protection that reduces temperature excursions by providing:

- Superior protection from solar radiation due to their unique, brilliant white, reflective outer surface, which stays cool in the sun
- Excellent protection from ambient temperature extremes—hot and cold—without the weight or bulk of alternative covers

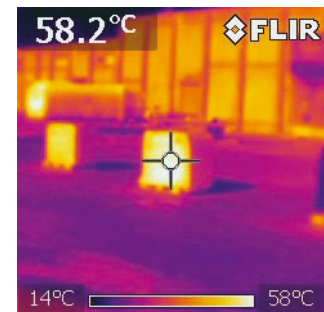
## Did you know?

When standing in the sun, the temperature inside a pallet can far exceed the ambient air temperature. This threat from solar radiation is no problem for pallets protected with Tyvek® cargo covers. That’s because Tyvek® cargo covers offer superior protection from solar radiation compared to other commercially available pallet covers.

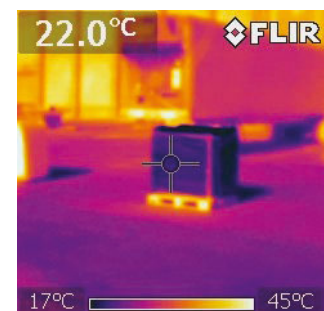
## Comparison of surface temperatures (°C)



Control (stretch wrap)



Thermal blanket

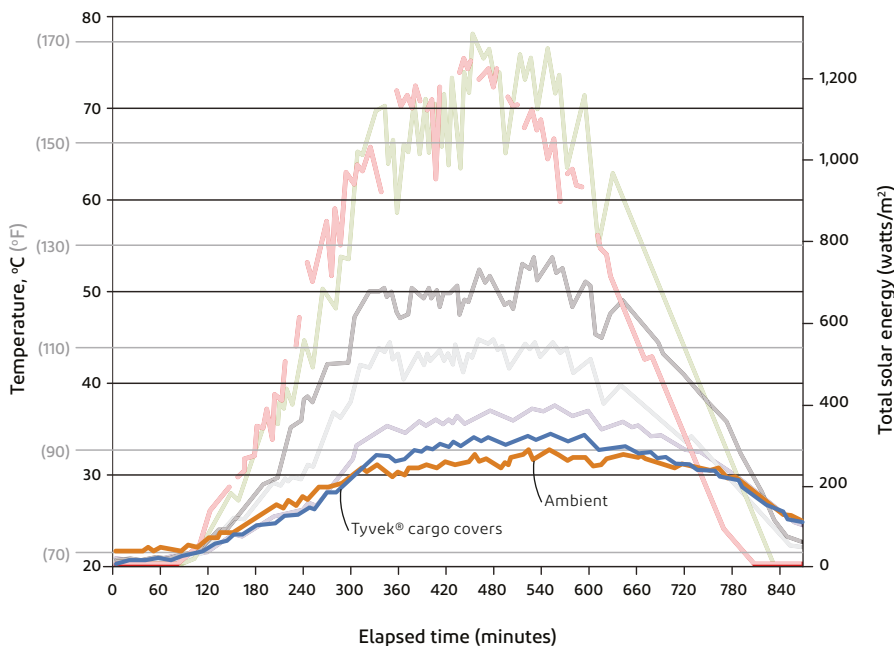


Tyvek® cargo covers

Test conditions: Covered pallets on simulated tarmac in Lakeland, FL, November 2012 at ~11 a.m. Full sun with ambient temperature at 20°C.

Courtesy of The Illuminate Group

South face with total solar



- Ambient
- Tyvek® cargo covers
- Metallized bubble wrap
- White stretchwrap/film
- Black stretchwrap/film
- Clear stretchwrap/film
- Solar energy (watts/m<sup>2</sup>)

Test conditions: Euro-sized, covered pallets on ground near Homestead, FL, 23 March 2013. Empty boxes. Full sun exposure with ambient high of 32°C/90°F. Solar wattage data when clouds obscured sun not shown to remove noise from graph. Tyvek® Solar™ W20 cover shown. Solar energy measured at 26° north latitude per ASTM G7.

## Why recycle

Tyvek® cargo covers are the sustainable alternative to other passive cargo protection solutions. When recycled, they can be transformed into a range of new materials, from recycled plastic lumber (RPL) and marine engineering products to flooring, pallets, park benches, playground equipment and much more.

The Tyvek® cargo cover recycling program is easy to set up and manage, and it is provided at no cost to our customers. It reduces overall waste to landfills and supports companies in their sustainability efforts. It's good for the environment—and good for business.

## Ask us how we can help

Tyvek® cargo covers are only available from DuPont and our authorized distributors. Please visit our website for more information. Contact your regional Tyvek® cargo covers representative for a product list or to discuss your sizing needs.

# Tyvek®

For greater good.



**Distributor Switzerland**

**QRWaybill Sàrl, Aigle**

**T. +41 79 446 2988**

**M. [exec@qrwaybill.ch](mailto:exec@qrwaybill.ch)**

**[www.aircargocover.com](http://www.aircargocover.com)**



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