

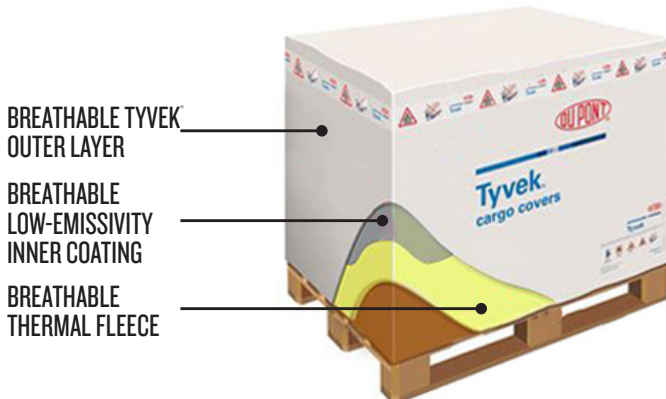
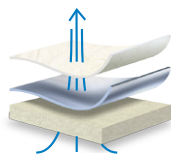
DUPONT™ TYVEK® XTREME™ W50

Proven Performance for the Long Haul

Tyvek® Xtreme™ W50 cargo cover gives you peace of mind that your cargo can withstand the physical challenges of long-haul shipping. It's especially suited for use with pharmaceutical goods and other cold chain critical shipments. Backed by extensive trials and testing, Tyvek® Xtreme™ W50 is a cargo cover like no other.

Breathable Barrier

The Tyvek® Xtreme™ W50 cargo cover allows air and water vapor exchange, helping ensure that humidity cannot reach damaging levels even as ambient temperatures fluctuate. The breathable barrier protects your products—and your bottom line. The process used to make the Tyvek® Solar™ W50 cover maintains the breathability of the material, reducing risk from humidity, condensation, and trapped gases, while speeding recovery to your desired target temperature when brought back into the cold chain from a hot environment exposure--benefits you won't get with competing covers.



Range of Available Sizes

A global size range of Tyvek® cargo covers is available (UK/USA, PMC, ULD, EURO, ASIAN and matching bases), as well as custom sizes.

Lightweight Strength

Unlike plastic films and bubble-based alternatives, the continuous-filament insulation layer of Tyvek® Xtreme™ W50 provides your cargo with a lightweight and durable barrier that withstands physical handling and weather conditions throughout its journey.

Lower Thermal Conductivity

Tyvek® cargo covers feature exclusive technology for protecting temperature-sensitive goods. The Tyvek® Xtreme™ W50 cargo cover:

- Breathes to promote moisture escape
- Reduces heat gain with superior reflectivity in the high-intensity, visible radiation solar spectrum
- Decreases heat transfer to the cargo thanks to its metallized inner coating and thermal insulation layer
- Resists the ambient temperature variations common during long-haul transport

Tyvek® Xtreme™ W50 performs as both a radiant shield and as a conduction barrier for cold-chain temperature control.

Technical Specifications

Property	Value	Test Method
Basis Weight ⁽¹⁾	330 ± 15 g/m ²	DIN EN ISO 536 (96)
Tensile Strength ⁽²⁾	MD 155 ± 25 N/5cm	EN 12311-1 (99)
	XD 130 ± 20 N/5cm	
Tensile Elongation ⁽²⁾	MD 9% ± 3%	EN 12311-1 (99)
	XD 14% ± 5.5%	
Tear Resistance (nail shank) ⁽²⁾	MD 60 ± 20 N	EN 12310-1 (99)
	XD 55 ± 15 N	
Emissivity*	16% ± 6%	ASTM C1371
Light reflection (400–700 nm)**	91.3% ± 3%	ASTM E1164
Moisture Vapor Transmission ⁽³⁾	1300 ± 600 g/m ² /24h	DIN EN ISO 12572 C
Water Pressure (Hydrostatic Head) ⁽⁴⁾	>140 cm H ₂ O	DIN EN 20811 (92)
Resistance to Penetration of Water ⁽²⁾	W1 PASS	DIN EN 1928-A (00)
Thermal conductivity (at 0 C)**	0.0288 W/mK	ASTM C518
	0.3035 m ² K/W	
Thermal resistance (at 0 C)**	1.72 ft ² F. hr /BTU	ASTM C518
	4.37 ft ² F. hr /BTU.in	
Dynamic Rain Resistance ⁽⁶⁾	Pass	AAMA 501.1-17

MD/XD: Machine direction/Cross-machine direction

*Measured on the inner surface

**Measured on the outer surface

(1) Sample size 100 cm²

(2) Surface 2 cm², pressure 100 kPa

(3) Modified for sample preparation before testing as per EN 13859-1 (2010) & EN 13859-2 (2010)

(4) Results based on multi-layer testing; 100%RH in the cup; 2.5 m/s air velocity above the cup; 30 min time interval

(5) Rate of use 60 cmH₂O/min

(6) Test conducted at 30 MPH wind velocity



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



Low-emissivity aluminum layer provides enhanced temperature control



Lightweight design for easy handling and reduced freight costs



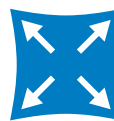
Installs easily for reduced labor requirements and consistent performance



Durable and tear resistant



Water resistant



Built-in elastic band for ease in securing the cover



Wide range of industry-standard and customizable sizes



Enhanced R-value reduces likelihood of temperature excursions



Recyclable for reduced environmental impact



Recommended for pharmaceuticals



Breathable, allowing for the release of heat and vapor

Our global team of Tyvek® experts is ready to assist you.
cargocovers.dupont.com 1-800-44-TYVEK

*The Tyvek® recycling program is available now in the United States and launching in Canada in 2018.

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FOR
GREATER
GOOD™