



Tyvek.

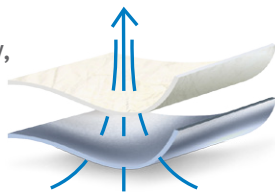
# DUPONT™ TYVEK® SOLAR™ W20

## The Standard for Thermal Radiation Control

DuPont™ Tyvek® Solar™ W20 cargo covers provide essential protection for a wide range of temperature-sensitive goods. Tyvek® Solar™ W20 provides all the benefits of Tyvek® Solar™ W10 but adds a performance-enhancing low-emissivity metallized coating inside that further reduces heat transfer to your cargo, enhancing protection from solar exposure breaks in the cold chain.

## Breathable Barrier

The inherent breathability of Tyvek® reduces risks from humidity, condensation and trapped gases. The process used to make the Tyvek® Solar™ W20 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.



BREATHABLE TYVEK  
OUTER LAYER

BREATHABLE  
LOW-EMISSIVITY  
INNER COATING



## Why Use Tyvek® Cargo Covers?

Tyvek® cargo covers use a flash spinning process unique in commercial manufacturing. DuPont™ Tyvek® Solar™ W20 cargo covers:

- Easy to install
- Stand up to rough handling
- Breathe to promote moisture escape
- Reduce thermal transfer thanks to low-emissivity inner coating

## 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

The unique flash-spun structure of Tyvek® resists tears and punctures, yet it's typically 2 to 8 times lighter than conventional products.

## Superior Temperature Control

The brilliant white surface of the DuPont™ Tyvek® Solar™ W20 cargo cover is a superior reflector of solar radiation in the most important, highest intensity visible spectrum, thereby reducing heat gain. At the same time, the metallized inner coating further decreases heat transfer in the direction of the cargo, all without reducing the covers' breathability.

## Technical Specifications

Property	Value	Test Method
Basis Weight <sup>(1)</sup>	60 ± 5 g/m <sup>2</sup>	DIN EN ISO 536 (96)
Thickness <sup>(2)</sup>	170 ± 60 µm	DIN EN ISO 534 (05)
Tensile Strength <sup>(2)</sup>	MD 155 ± 25 N/5cm XD 130 ± 20 N/5cm	EN 12311-1 (99)
Tensile Elongation <sup>(3)</sup>	MD 9% ± 3% XD 14% ± 5.5%	EN 12311-1 (99)
Tear Resistance (nail shank) <sup>(3)</sup>	MD 60 ± 20 N XD 55 ± 15 N	EN 12310-1 (99)
Emissivity*	15% ± 6%	ASTM C1371
Light reflection (400–700 nm)**	90.9% ± 1.7%	ASTM E1164
Moisture Vapor Transmission <sup>(4)</sup>	1300 ± 500 g/m <sup>2</sup> /24h	DIN EN ISO 12572 C
Water Pressure (Hydrostatic Head) <sup>(5)</sup>	>130 cm H <sub>2</sub> O	DIN EN 20811 (92)
Resistance to Penetration of Water <sup>(3)</sup>	W1 PASS	DIN EN 1928-A (00)
Rain Resistance <sup>(6)</sup>	PASS	ASTM E1105-15

MD/XD: Machine direction/ Cross-machine direction

\*Measured on the inner surface

\*\*Measured on the outer surface

(1) Sample size 100 cm<sup>2</sup>

(2) Surface 2 cm<sup>2</sup>, 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 cmH<sub>2</sub>O/min

(6) Test modified to allow water spray from top and two opposing sides of cargo cover



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



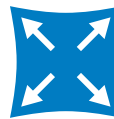
Installs easily for reduced labor requirements and consistent performance



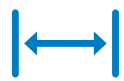
Durable and tear resistant



Water resistant



Built-in elastic band for ease in securing the cover



Wide range of industry-standard and customizable sizes



Recyclable for reduced environmental impact\*



Recommended for pharmaceuticals



Breathable for reduced buildup of condensation and gas

Our global team of Tyvek® experts is ready to assist you.  
[cargocovers.dupont.com](http://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™