



# Tyvek® Solar™ W10

## Proven performance with real benefits

DuPont™ Tyvek® Solar™ W10 cargo covers are used to protect a wide variety of temperature-sensitive products worldwide. Tyvek® Solar™ W10 has been thoroughly tested in a range of extreme temperature fluctuation scenarios.

## Breathable barrier

Tyvek® Solar™ W10 offers inherent breathability. The fabric allows the exchange of air and water vapor, helping ensure that interior moisture cannot reach damaging levels as a result of ambient temperature fluctuations.



Breathable Tyvek®



## 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 two to eight times lighter than many competing products.

## Lower heat gain

The brilliant white surface of the Tyvek® Solar™ W10 cargo cover is a superior reflector of solar radiation in the most important, highest intensity visible spectrum, thereby reducing heat gain.



## Technical properties

Property	Unit	Value			Test method
		Nominal	Min	Max	
Basis weight <sup>1</sup>	g/m <sup>2</sup>	58	–	61	DIN EN ISO 536 (96)
Thickness <sup>2</sup>	µm	170	–	230	DIN EN ISO 534 (05)
Tensile strength <sup>3</sup>	N/5 cm MD	165	140	–	EN 12311-1 (99)
	N/5 cm XD	140	115	–	
Tensile elongation <sup>3</sup>	% MD	9	–	11	EN 12311-1 (99)
	% XD	16.5	–	21	
Tear resistance (nail shank) <sup>3</sup>	N MD	65	50	–	EN 12310-1 (99)
	N XD	60	45	–	
Emissivity	%	62.7	–	64.7	ASTM C1371
Reflectivity*	490 nm (solar peak)	%	92.2	91.7	ASTM E903
	300 – 1120 nm <sup>4</sup>	%	89.4	88.8	
Moisture vapor transmission <sup>5</sup>	g/m <sup>2</sup> /24h	1675	950	–	DIN EN ISO 12572 C
Water pressure (hydrostatic head) <sup>6</sup>	cm H <sub>2</sub> O	–	170	–	DIN EN 20811 (92)
Resistance to penetration of water	–	W1 Pass	–	–	DIN EN 1928-A (00)

MD/XD: Machine direction/cross-machine direction  
 \*Roll average values  
<sup>1</sup>Sample size 100 cm<sup>2</sup>  
<sup>2</sup>Surface 2 cm<sup>2</sup>, pressure 100 kPa

<sup>3</sup>Modified for sample preparation before testing as per EN 13859-1 (2010) & EN 13859-2 (2010)  
<sup>4</sup>Spectral range including 80% of solar irradiance as per ASTM G173-03 direct plus circumsolar

<sup>5</sup>Results based on multi-layer testing; 100% RH in the cup; 2.5 m/s air velocity above the cup; 30 min time interval  
<sup>6</sup>Rate of use 60 cm H<sub>2</sub>O/min



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



Lightweight design for easy handling and reduced freight costs



Breathable for reduced buildup of condensation and gas



Wide range of traceable industry-standard and customizable sizes



Durable and tear resistant



Weather resistant



Built-in elastic band for ease in securing the cover



Installs easily for reduced labor requirements and consistent performance



Recyclable for reduced environmental impact<sup>†</sup>



Recommended for pharmaceuticals



Global availability

**Tyvek**  
 For greater good™



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

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