



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 ¹	g/m ²	58	–	61	DIN EN ISO 536 (96)
Thickness ²	µm	170	–	230	DIN EN ISO 534 (05)
Tensile strength ³	N/5 cm MD	165	140	–	EN 12311-1 (99)
	N/5 cm XD	140	115	–	
Tensile elongation ³	% MD	9	–	11	EN 12311-1 (99)
	% XD	16.5	–	21	
Tear resistance (nail shank) ³	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 ⁴	%	89.4	88.8	
Moisture vapor transmission ⁵	g/m ² /24h	1675	950	–	DIN EN ISO 12572 C
Water pressure (hydrostatic head) ⁶	cm H ₂ 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
¹Sample size 100 cm²
²Surface 2 cm², pressure 100 kPa

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

⁵Results based on multi-layer testing; 100% RH in the cup; 2.5 m/s air velocity above the cup; 30 min time interval
⁶Rate of use 60 cm H₂O/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[†]



Recommended for pharmaceuticals



Global availability

Tyvek
 For greater good™

cargocovers.dupont.com
cargocovers.dupont.co.uk
 1 800 44 TYVEK

 DuPont™ Tyvek® cargo covers



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

This information is based on technical data DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information. It is the user's responsibility to determine the proper cargo protection needed. It is intended for informational use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk. Since conditions of use are outside our control, DuPont makes no warranties, express or implied, including, without limitation, no warranties of merchantability or fitness for a particular use and assumes no liability in connection with any use of this information. This information is not intended as a license to operate under or a recommendation to infringe any trademark, patent or technical information of DuPont or others covering any material or its use. DuPont™, the DuPont Oval Logo, For greater good™, Tyvek® and Tyvek® Solar™ are trademarks or registered trademarks of DuPont or its affiliates. Copyright © 2019 DuPont de Nemours Inc. K-29949 (03/19)

Technology by Blueeye is a registered trademark of Blueeye, LLC.