



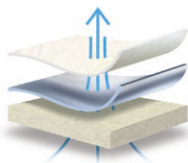
Tyvek® Xtreme™ W50

Proven performance for the long haul

DuPont™ Tyvek® Xtreme™ W50 cargo cover can withstand the physical challenges of long-haul shipping. It's especially suited for use with pharmaceutical products and other cold chain critical shipments. After extensive trials and testing, Tyvek® Xtreme™ W50 is a cargo cover like no other.

Breathable barrier

The Tyvek® Xtreme™ W50 cargo cover protects your products because it allows air and water vapor exchange, helping ensure that humidity cannot reach damaging levels—even as ambient temperatures fluctuate. The process used to make the Tyvek® Xtreme™ W50 cover maintains the breathability of the material, helping reduce 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 non-breathable competing covers.



Breathable Tyvek®
outer layer

Breathable
low-emissivity
inner coating

Breathable
thermal fleece



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 helps withstand physical handling and weather conditions throughout its journey.

Why use Tyvek® Xtreme™ W50?

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

- Reflective and insulated to reduce temperature excursions and cold chain breaks—especially during long-haul transport
- Breathable to allow gases, vapors and condensation to pass through
- Durable to control physical hazard intrusion and provide protection from adverse weather
- Easy to use and install

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

DUPONT
Tyvek

Technical properties

Property	Unit		Value			Test method
			Nominal	Min	Max	
Basis weight ¹	g/m ²		330	–	345	DIN EN ISO 536 (96)
Tensile strength* ²	N/5 cm	MD	155	130	–	EN 12311-1 (99)
	N/5 cm	CD	130	110	–	
Tensile elongation* ²	%	MD	9	–	12	EN 12311-1 (99)
	%	CD	14	–	19.5	
Tear resistance* (nail shank) ²	N	MD	60	40	–	EN 12310-1 (99)
	N	CD	55	40	–	
Emissivity*	%		15	–	21	ASTM C1371
Reflectivity*	490 nm (solar peak)		93.1	92.5	–	ASTM E903
	300 – 1120 nm ³		90.8	90.4	–	
Moisture vapor transmission* ⁴	g/m ² /24h		1300	800	–	DIN EN ISO 12572 C
Water pressure (hydrostatic head) ⁵	cm H ₂ O		–	140	–	DIN EN 20811 (92)
Resistance to penetration of water*	–		W1 Pass	–	–	DIN EN 1928-A (00)
Thermal conductivity (at 0°C)**	W/mK		0.0288	–	–	ASTM C518
	m ² K/W		0.3035	–	–	
Thermal resistance (at 0°C)**	ft ² °F.hr/Btu		1.72	–	–	ASTM C518
	ft ² °F.hr/Btu.in		4.37	–	–	

MD/CD: Machine direction/cross-machine direction

*Reflective layer property, roll average

**Insulating layer property

¹Sample size 100 cm²

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

³Spectral range including 80% of solar irradiance as per ASTM G173-03 direct plus circumsolar

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

⁵Rate of use 60 cm H₂O/min



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



Breathable for reduced buildup of condensation and gas



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



Wide range of traceable industry-standard and customizable sizes



Global availability

Tyvek®

For greater good.™



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

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