

SHADE SENSE OUTDOOR SOLAR FABRIC

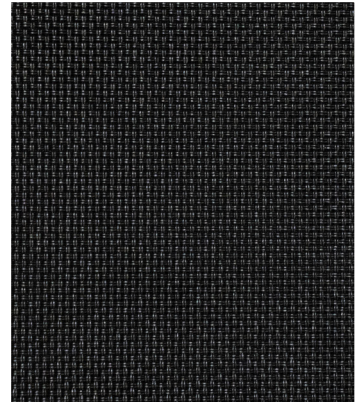
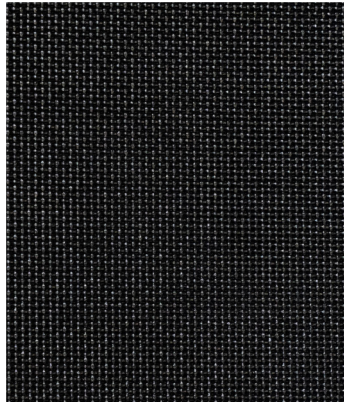
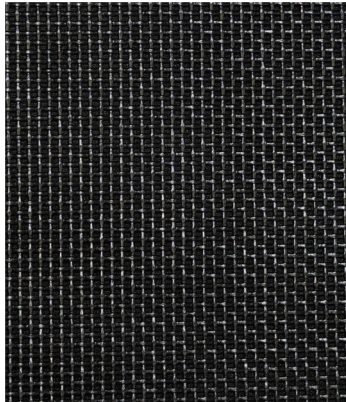
80

90

95

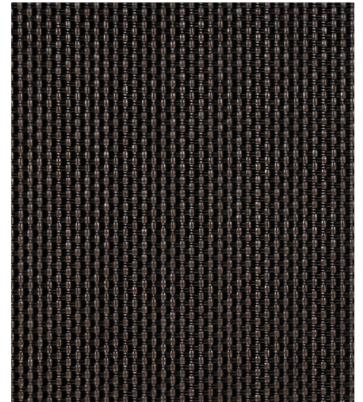
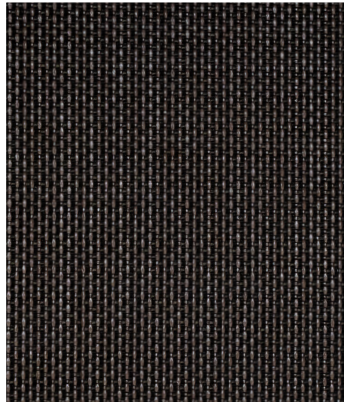
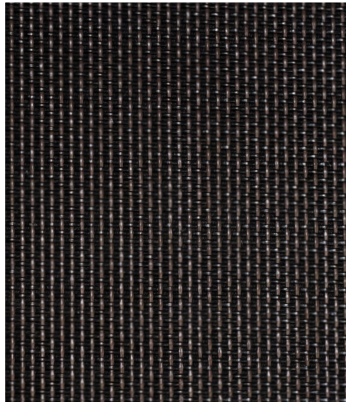
Black

Roll Height 126"



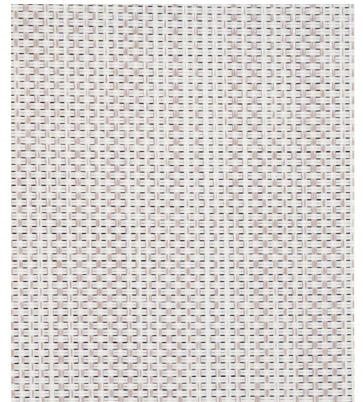
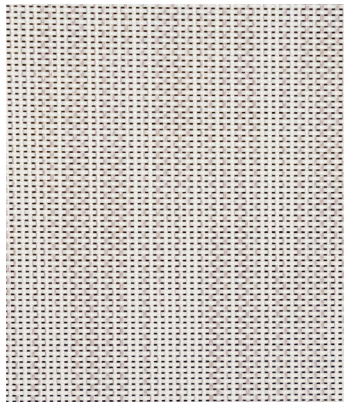
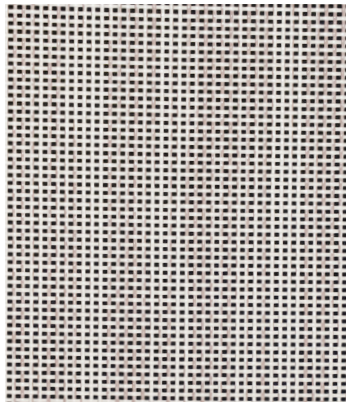
Dark Bronze

Roll Height 126"



Khaki

Roll Height 126"





SHADE SENSE OUTDOOR SOLAR FABRIC 80

Yarn

Series	TX 80	
Technical specifications	Average Values	Standard
Composition	Vinyl 70% Polyester 30%	
Diameter	0.59mm	
Environment	GREENGUARD GOLD/REACH	

Fabric

Series	TX 80	
Technical specifications	Average Values	Standard
Openness factor	20%	Microscopic Method
Thickness	0.74mm(+/- 5%)	
Weight	447g/m2(+/- 5%)	ASTM D3776
Fabric Count(sq.inch)	16 Warps x 14.5 Wefts, 1*1 Plain	ASTM D3775
Tensile Strength (LBF)	Warp 360 , Weft 280	ASTM D5034
Tearing Strength (LBF)	Warp 38 , Weft 36	ASTM D2261
Elongation Rate	Warp 25.10% , Weft 24.21%	ASTM D5034
Color Fastness to light	Grade > 7	ISO 105 B02:2000
Anti-Bacteria	ASTM G21-15 ASTME2180	
Fire resistance	NFPA701-FR CA TITLE 19 CA/TB117-2013 Section E Part 1 CS 191-53 CAN/ULC-S 109-03 FMVSS302 IMO A.652(16) EN1021-1 BS 5867 2008 Part 2	
Standard Width	126"	
Standard roll length	33YD	
Cutting	best result with crush cutting	
Welding	thermal,HF,ultrasonic,sewing	
Cleaning	remove dust from the fabric surface,then wipe gently with a humid soft sponge while using a mild detergent	

Above figures are approximate and given for guidance purposes only.



SHADE SENSE OUTDOOR SOLAR FABRIC 90

Yarn

Series	TX 90	
Technical specifications	Average Values	Standard
Composition	Vinyl 70% Polyester 30%	
Diameter	0.59mm	
Environment	GREENGUARD GOLD/REACH	

Fabric

Series	TX 90	
Technical specifications	Average Values	Standard
Openness factor	10%	Microscopic Method
Thickness	0.85mm(+/- 5%)	
Weight	548g/m2(+/- 5%)	ASTM D3776
Fabric Count(sq.inch)	20 Warps x 18 Wefts, Plain	ASTM D3775
Tensile Strength (LBF)	Warp 496 , Weft 443	ASTM D5034
Tearing Strength (LBF)	Warp 97 , Weft 60	ASTM D2261
Elongation Rate	Warp 19% , Weft 17%	ASTM D5034
Color Fastness to light	Grade > 7	ISO 105 B02:2000
Anti-Bacteria	ASTM G21-15	
	ASTME2180	
Fire resistance	NFPA701-FR	
	CA TITLE 19	
	CA/TB117-2013 Section E Part 1	
	CS 191-53	
	CAN/ULC-S 109-03	
	FMVSS302	
	IMO A.652(16)	
	EN1021-1	
	BS 5867 2008 Part 2	
Standard Width	126"	
Standard roll length	33YD	
Cutting	best result with crush cutting	
Welding	thermal,HF,ultrasonic,sewing	
Cleaning	remove dust from the fabric surface,then wipe gently with a humid soft sponge while using a mild detergent	

Above figures are approximate and given for guidance purposes only.



SHADE SENSE OUTDOOR SOLAR FABRIC 95

Yarn

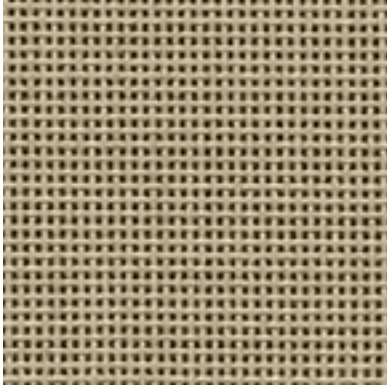
Series	TX 95	
Technical specifications	Average Values	Standard
Composition	Vinyl 74% Polyester 26%	
Diameter	0.41mm	
Environment	GREENGUARD GOLD/REACH	

Fabric

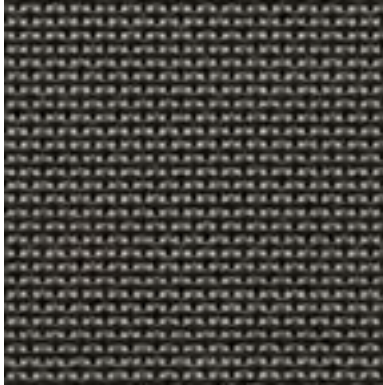
Series	TX 95	
Technical specifications	Average Values	Standard
Openness factor	5%	Microscopic Method
Thickness	0.70mm(+/- 5%)	
Weight	490g/m2(+/- 5%)	ASTM D3776
Fabric Count(sq.inch)	36 Warps x 34 Wefts, 2*2	ASTM D3775
Tensile Strength (LBF)	Warp 350 , Weft 330	ASTM D5034
Tearing Strength (LBF)	Warp 20 , Weft 18	ASTM D2261
Elongation Rate	Warp 31.5% , Weft 29.7%	ASTM D5034
Color Fastness to light	Grade > 7	ISO 105 B02:2000
Anti-Bacteria	ASTM G21-15 ASTME2180	
Fire resistance	NFPA701-FR CA TITLE 19 CA/TB117-2013 Section E Part 1 CS 191-53 CAN/ULC-S 109-03 FMVSS302 IMO A.652(16) EN1021-1 BS 5867 2008 Part 2	
Standard Width	126"	
Standard roll length	33YD	
Cutting	best result with crush cutting	
Welding	thermal,HF,ultrasonic,sewing	
Cleaning	remove dust from the fabric surface,then wipe gently with a humid soft sponge while using a mild detergent	

Above figures are approximate and given for guidance purposes only.

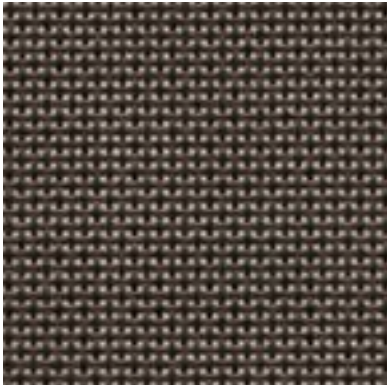
SUNTEX® 80 SOLAR SCREENS



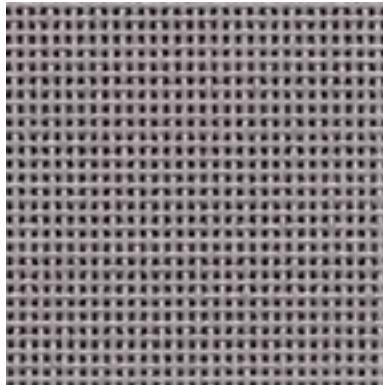
BEIGE



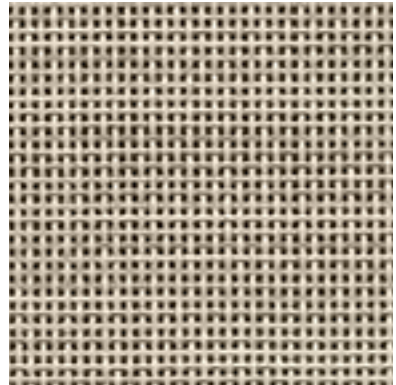
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DARK BRONZE

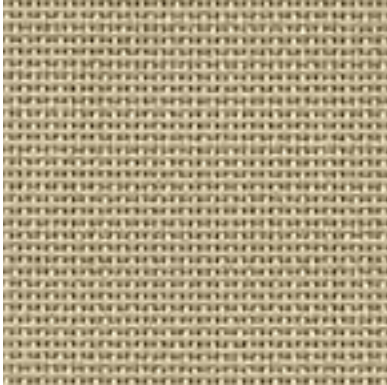


GREY

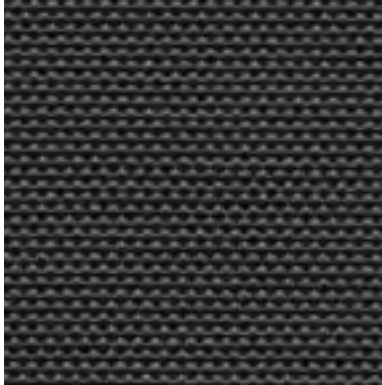


STUCCO

SUNTEX® 90 SOLAR SCREENS



BEIGE



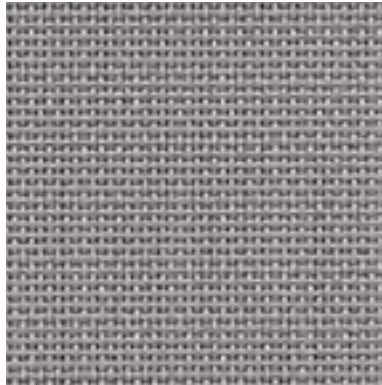
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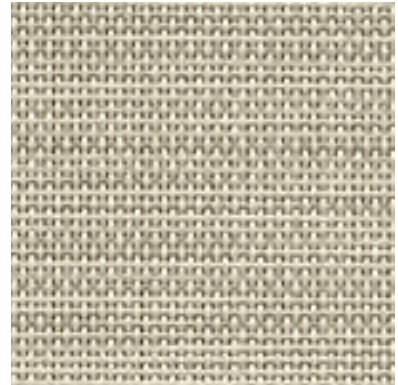
BROWN



DARK BRONZE



GREY



STUCCO

SUNTEX® 95 PRIVACY SCREENS



ALPACA



BLACK



CARBON



CHESTNUT



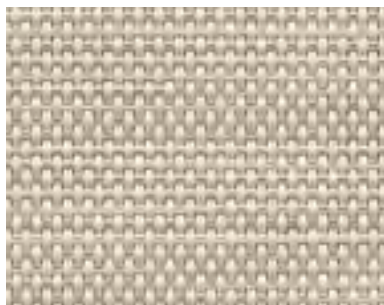
DARK BRONZE



MOCHA



SAND



STUCCO



WHITE GREY



WHITE

SHEERWEAVE® SUN CONTROL SCREENS



2500 1% V21 CHARCOAL



2500 1% V24
CHARCOAL CHESTNUT



2500 1% V32
CHAROCAL ALPACA



2500 1% Q20 BEIGE



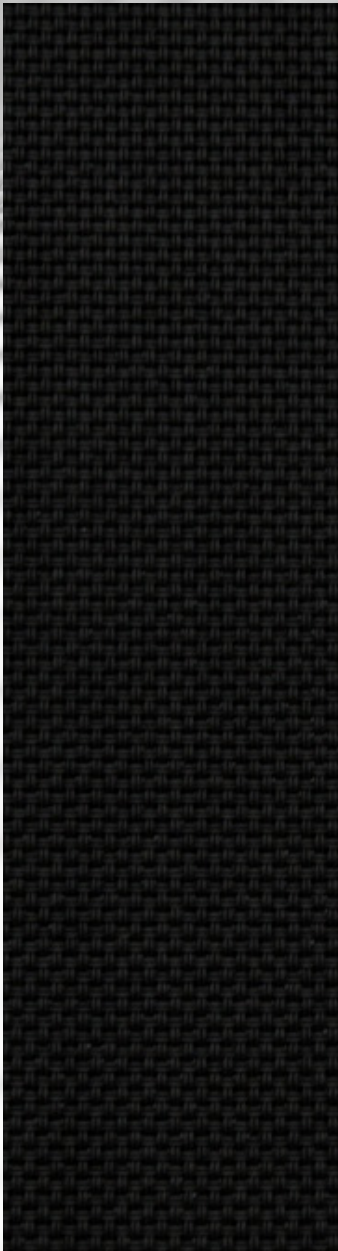
2500 1% P14
OYSTER PEARL GRAY



2500 1% P13 OYSTER BEIGE

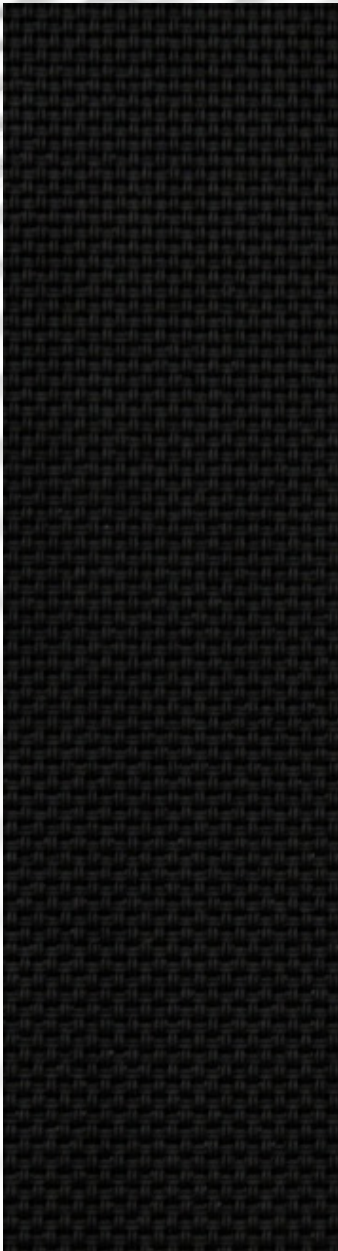


STORMSHIELD
OMEGATEX™ 90



T18MIS001
Flat Black

STORMSHIELD
OMEGATEX™ 95



T18MUS001
Flat Black

Due to the technical limitations of digital cameras and inconsistencies of display monitors, the characteristics and colors of the fabrics seen on your screen may be slightly different than the actual product.

Twitchell’s OmegaTEX™ StormShield 90 & 95, made with genuine DuPont™ Kevlar®, aims to revolutionize the exterior storm and wind abatement market. Driven by extreme weather disruptions and two times the strength of your traditional solar fabric, StormShield 90 & 95 with Kevlar® is a versatile, yet lightweight, fabric offering superior high wind protection while transforming any outdoor space into a comfortable oasis. Stocked in seven beautiful colorways, OmegaTEX™ StormShield 90 & 95 is Berry Compliant and 100% Made in the USA.

*Custom colors and widths available. Minimum order of 1000 yds. Upcharges may apply. ** Available in 33.3 lyd rolls.

Specifications

REACH Compliant - Regulated by Registration, Evaluation, Authorization and Restriction of Chemicals. REACH places greater responsibility on industry to manage the risks that chemicals may pose to human health and the environment.

Fire Classification - Passes California U.S. Title 19 (small scale), NFPA701-2015 TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1), BS 5867 2008 Part 2 Type B Performance, NFPA 701 TM #2 (large scale), and CAN/ULC-S 109-03 (large and small scale).

Bacteria and Fungal Resistance - Passes ASTM E 2180, ASTM G21. Includes specially formulated antimicrobial.

RoHS Compliant - Free of Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Hex-Cr), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE).

Children’s Toy Act - Does not contain harmful phthalates listed under Section 108 of the Consumer Product Safety Improvement Act of 2008 (CPSIA).

Environmental Certification - GREENGUARD gold certified. Acceptable for use in environments such as schools and healthcare facilities. Complies with requirements of the State of California’s Department of Public Health "Standard Method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1 (2010)" (also known as California Section 01350).

Warranty - Twitchell Technical Products, LLC produces durable, all weather fabrics that are unmatched for quality and durability. OmegaTEX™ brand fabrics are covered by a 15-year limited warranty for fixed & operable solar and wind abatement applications and 3-year limited warranty for all other end uses from the original date of purchase.

Technical Data

Product Number: StormShield 90 - T18MIT, T18MIS | StormShield 95 - T18MUT, T18MUS

Product Description: Woven fabrics using .025” diameter vinyl coated 1,000 denier polyester core yarns in warp and .025” diameter vinyl coated 1,000 denier **Kevlar®** core yarns in fill.

Attribute	ASTM	Warp		Fill		Typical	
		StormShield 90	StormShield 95	StormShield 90	StormShield 95	StormShield 90	StormShield 95
Construction, end/inch	D3775	19.0 ± 0.5	22.0 ± 0.5	19.0 ± 0.5	19.0 ± 0.5		
Weight, oz/yd²	D3776					17.3	19.1
Openness Factor						10%	5%
Tensile Strength (grab), lbf	D5034	772.0	816.0	1,267.0	1,240.0		
Tensile Strength (strip), lbf	D5035	290.0	316.0	612.0	576.0		
Tear Strength (trapezoidal), lbf	D5587	66.7	72.1	194.0	136.4		
Elongation, %	D5035	34.8	34.4	7.7	7.3		
Abrasion Resistance (CS10/500 cycles/ with no added weight)	D3884-09	No Exposure of Core Yarn					
Flammability Rating		CA Title 19 & NFPA 701					
Weatherability, 1200 hours	G154-16	No Discoloration					
Mildew Resistance	G21-13	Pass					
Thickness, inches / mm	D1777					0.035	0.040

The above results are a representation of real data from single test samples. Presently no specification is incorporated.

Product Disclaimer: OmegaTEX™ StormShield 90 & 95 is intended to be used, but not limited to, solar wind abatement exterior shading systems. Twitchell does not endorse, or warrant, the OmegaTEX™ StormShield 90 & 95 as a hurricane screen.



Kevlar® is a trademark of affiliates of DuPont de Nemours, Inc.



REACH COMPLIANCE



GREENGUARD GOLD



FLAME RESISTANT



LEAD FREE



ANTIMICROBIAL



BERRY COMPLIANT



RoHS COMPLIANT



LIMITED WARRANTY



TOY ACT



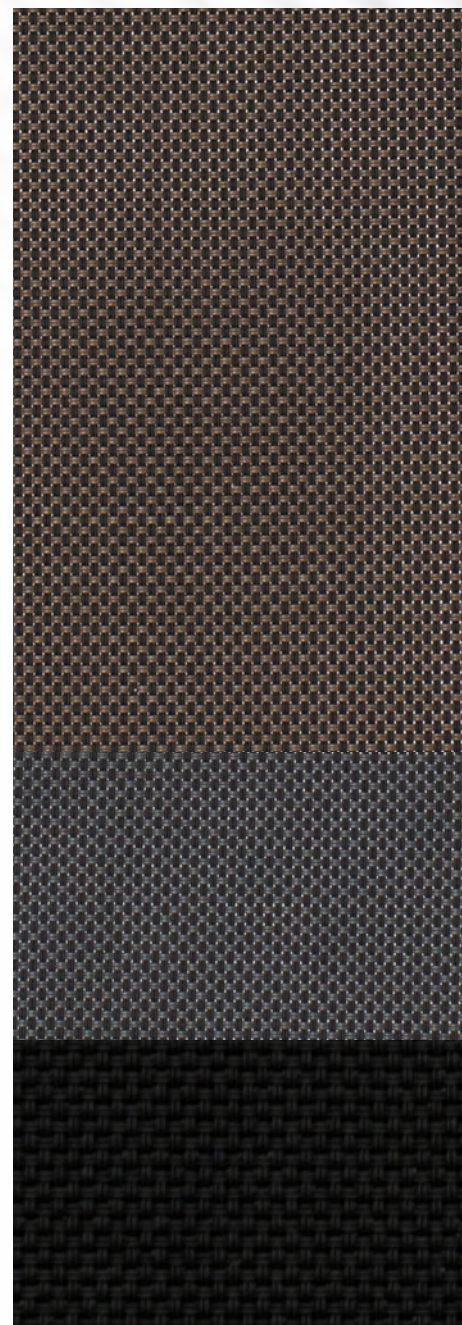
MADE IN USA



Tumbleweed
StormShield 90
T18MIT004 x 126"
StormShield 95
T18MUT004 x 126"

Espresso Texture
StormShield 90
T18MIT003 x 126"
StormShield 95
T18MUT003 x 126"

Granite
StormShield 90
T18MIT002 x 126"
StormShield 95
T18MUT002 x 126"



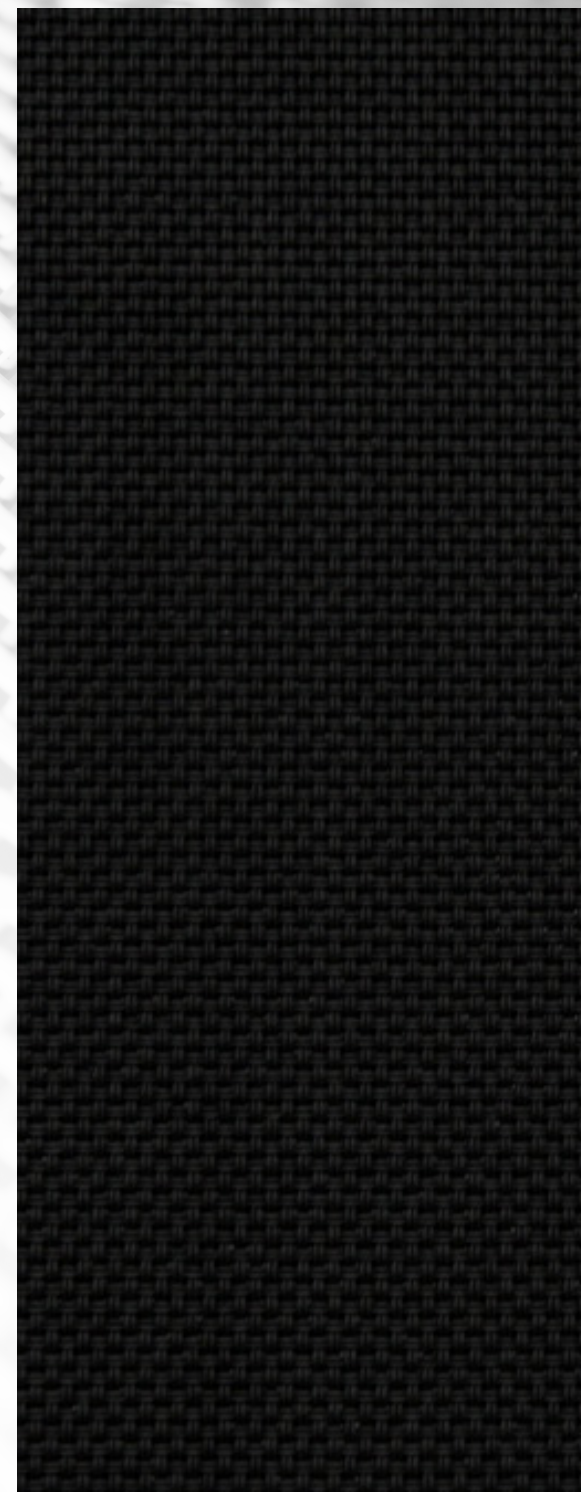
Tobacco
StormShield 90
T18MIT001 x 126"
StormShield 95
T18MUT001 x 126"

Charcoal
StormShield 90
T18MIT005 x 126"
StormShield 95
T18MUT005 x 126"

Flat Black
StormShield 90
T18MIS001 x 126"
StormShield 95
T18MUS001 x 126"

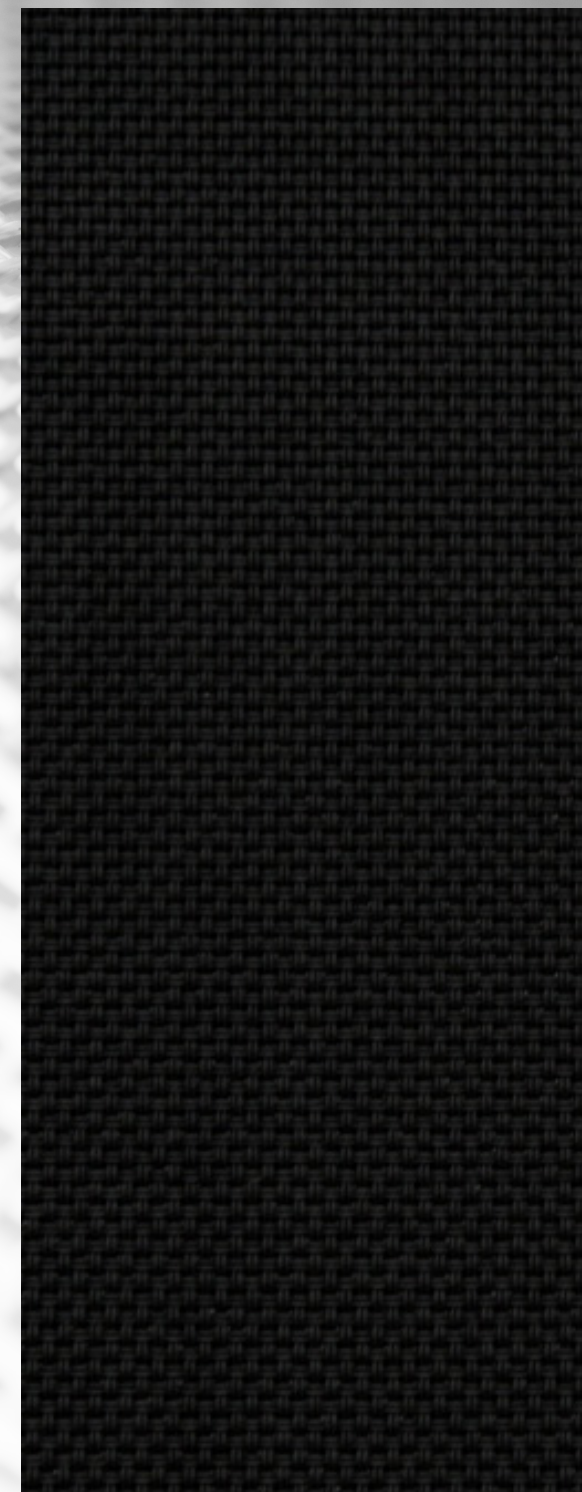
ENGINEERED WITH
DUPONT
Kevlar®

STORMSHIELD OMEGATEX™ 95



T18MUS001
Flat Black

STORMSHIELD OMEGATEX™ 90



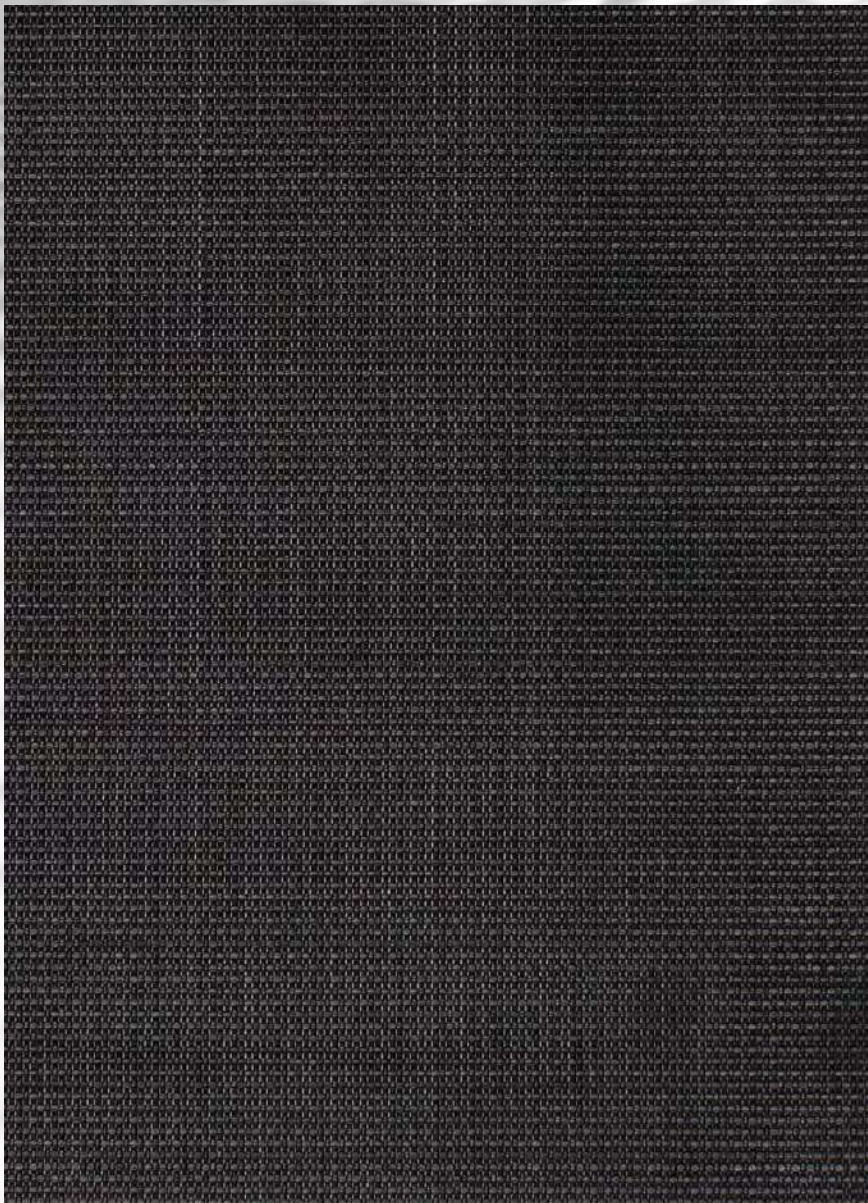
T18MIS001
Flat Black



OMEGA**TEX**[™]

HURRICANE SCREEN

15 Year Warranty



OmegaTEX[™] is one of the strongest, all-inclusive screen options on the market. Designed to offer protection from sun, wind, rain, insects, dust, and debris. OmegaTEX[™] protects against storm events and has passed certification under the Dade County Projectile Test when used with screening systems NOA labeled and Miami-Dade tested.

WEAVE CONSTRUCTION: 22 x 13.5



***Custom colors and widths available. Minimum order of 1000 yds. Upcharges may apply. ** Available in 30 lyl rolls.**

1-800-633-7550 | twitchellcorp.com

Specifications

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Fire Classification - Passes California U.S. Title 19 (small scale), NFPA701-2015 TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1), BS 5867 2008 Part 2 Type B Performance, NFPA 701 TM #2 (large scale), and CAN/ULC-S 109-03 (large and small scale).

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Technical Data

Product Number: T18KKS | **Roll Length:** Approximately 30 Linear Yards
Product Description: A fabric .027" diameter vinyl coated 1500 denier polyester core yarns in warp and .030" diameter vinyl coated 2000 denier Twaron core yarns in fill.

Attribute	ASTM	Warp	Fill	Typical
Construction	D3775-96	22.0 +/- 0.5	13.5 +/- 0.5	
Weight, oz/yd ²	D3776-96			19.5
Tensile Strength (grab), lbf	D5034-95	711.3	748.9	
Tensile Strength (strip), lbf	D5035-95	416.7	251.4	
Tear Strength, (Trapezodial), lbf	D1117-97	181.6	285	
Elongation, %	D5035-95	42.8	12.3	
Abrasion Resistances	D3884-92	No exposure to core yarn	No exposure to core yarn	
Weatherability, 1200 hours	G53-96	Trace discoloration	Trace discoloration	
Ball Burst, lbf*	D3787			460+
Bursting Strength, psi*	D3786			1250+
Puncture Resistance, lbf	D4833			364
Porosity Calculation				Open: 9% / Cover: 91%
Flammability Rating				CS 191-53

The above results are a representation of real data from single test samples. Presently no specification is incorporated.

Style	Ts	Rs	As	Tv	Rv	Av	Tuv	O-F	SC 1/8" CI	R-Factor 1/8" CL
Black Profile Angle 0	0.08	0.04	0.88	0.12	0.05	0.83	0.08	0.08	0.18	1.365
Black Profile Angle 45	0.05	0.04	0.91	0.06	0.13	0.81	0.08	0.08	0.16	1.365

DISTRIBUTED OR MANUFACTURED BY:



REACH COMPLIANCE



GREENGUARD GOLD



FLAME RESISTANT



LEAD FREE



ANTIMICROBIAL



PRINTABLE



RoHS COMPLIANT



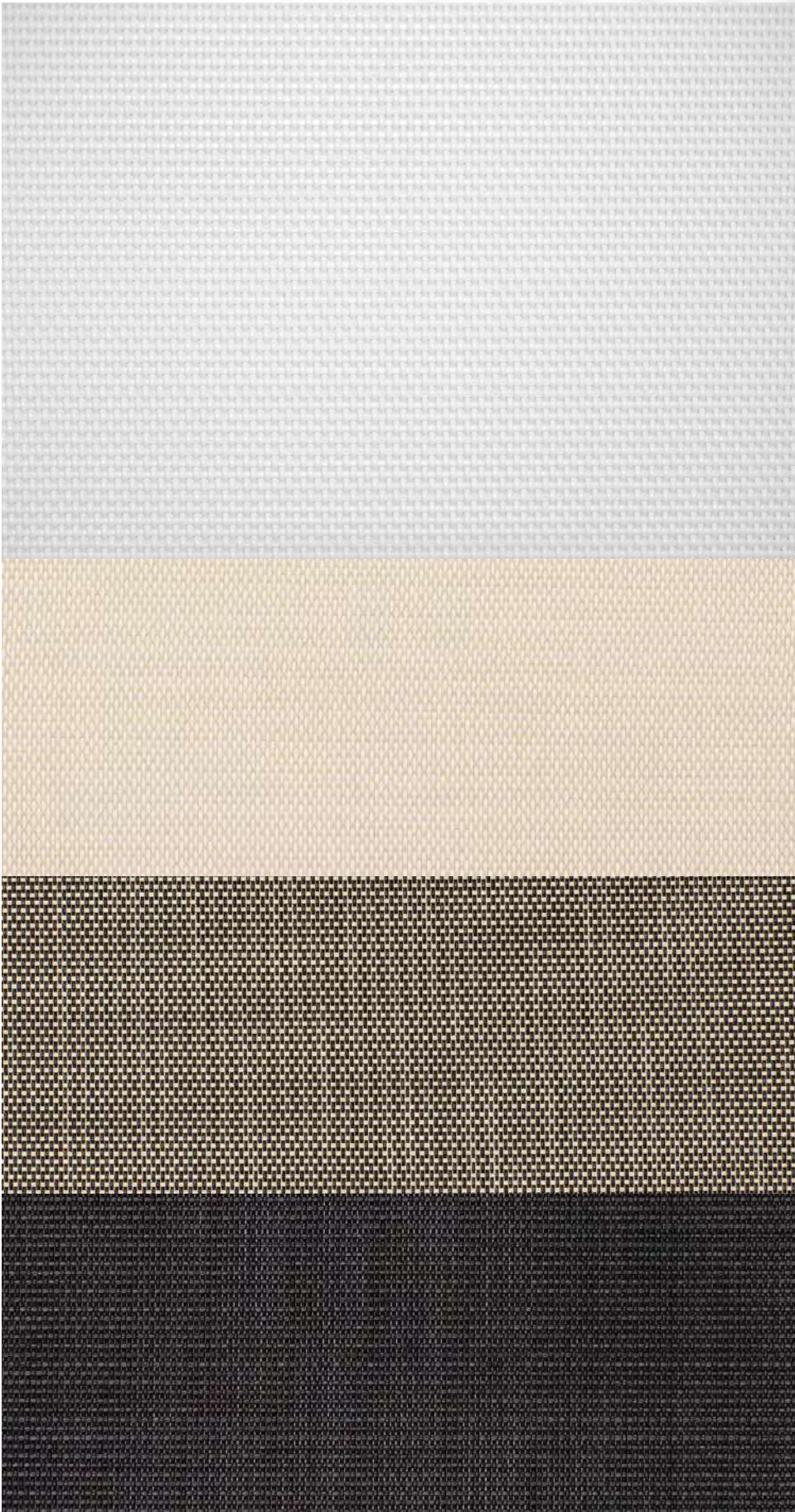
LIMITED WARRANTY



TOY ACT



MADE IN USA

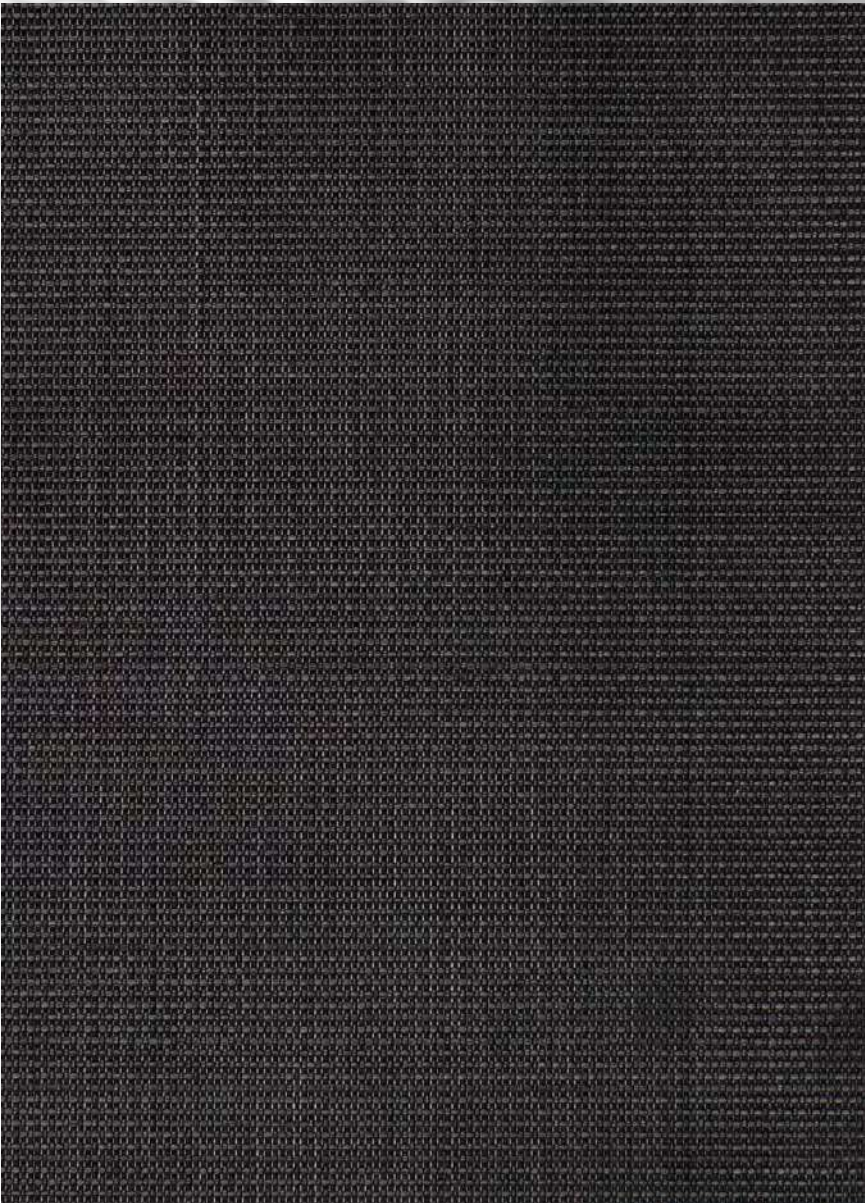


White:
T18KKS018 x 126"

White/Tan:
T18KKS008 x 126"

Black/Tan:
T18KKS007 x 126"

Black:
T18KKS002 x 126"



Black
T18KKS002 x 126"