



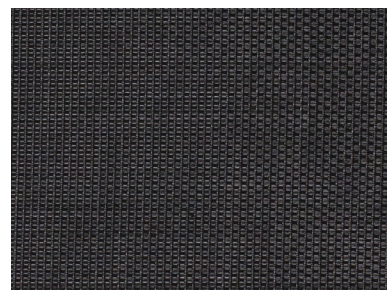
TEXTILENE  
**SUNSURE®**  
BRAND FABRIC

The original  
all-weather fabric.

TEXTILENE® SUNSURE® is a specially formulated high strength fabric built to withstand fading, mildew, soiling and wear and tear. SUNSURE® has up to a 92% shade factor making it the right choice for several outdoor applications. It is specially designed to remain vibrant and colorful for years even through continuous outdoor exposure and under the most severe weather conditions.

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.

\*Custom colors and widths available. Minimum order of 300 yards. Upcharges may apply.\*\* Available in 60 linear yard 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.

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

**Fire Classification:** Passes California Technical 117E and Commercial Standard 191-53.

**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).

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

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

## Technical Data

Item Number: T91NCS, T91NCT, T91HCT, T91N5W

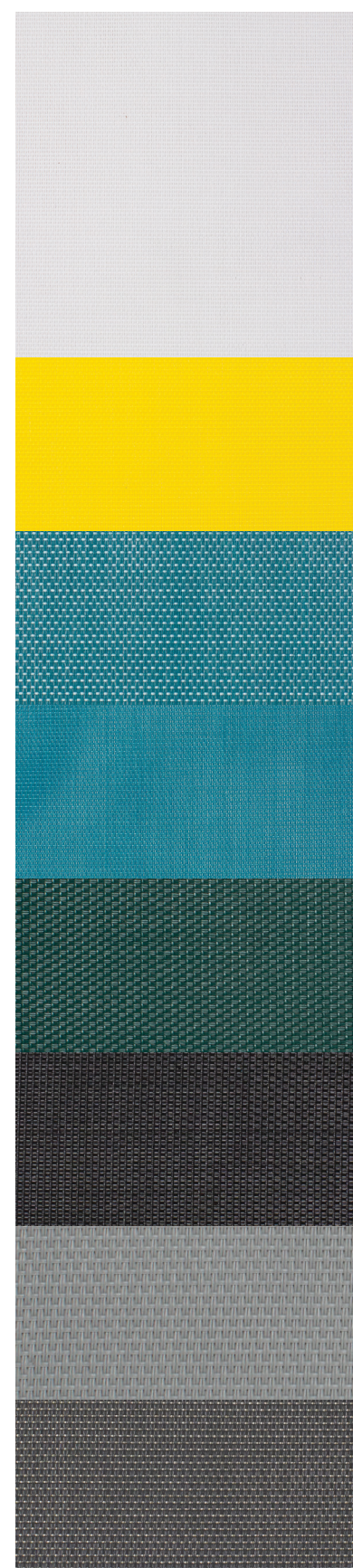
**Product Description:** A fabric using .018" diameter vinyl coated 500 denier polyester core yarns in the warp and .025" diameter vinyl-coated 1000 denier polyester core yarn in the fill.

Attribute	ASTM	Warp	Fill	Typical
Construction, end/inch	D3775	38.0 ±0.5	12.0 ±0.5	
Weight, oz/yd <sup>2</sup>	D3776-09	-	-	15.0
Weight, g/m <sup>2</sup>	D3776-09	-	-	508.65
Tensile Strength (grab), lbf / kgf	D5034-09	559.1 / 253.6	354.8 / 160.9	
Tensile Strength (strip), lbf / kgf	D5035-11	283.0 / 128.4	165.4 / 75.0	
Tear Strength (trapezoidal), lbf / kgf	D5733	101.8 / 46.2	65.6 / 29.8	
Elongation, %	D5035-95	27.3	25.4	
Abrasion Resistance (CS10/500 cycles/ with no added weight)	D3884-09		No Exposure of Core Yarn	
Flammability Rating			CS191-53 & CA117E	
Weatherability, 1200 hours	G154		Trace Discoloration	
Mildew Resistance	G21-13		No Growth	
Thickness, inches/mm				0.033" / 0.838mm

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

SUNSURE® Shade Factor				
Profile Angle	Transmittance	Reflectance	Absorption	Shade Factor
0	0.12	0.51	0.37	91
30	0.12	0.53	0.35	-
45	0.11	0.54	0.35	-
75	0.08	0.63	0.29	-

Color is the key factor when selecting a TEXTILENE® SUNSURE® fabric for awning or shade applications. Light colors are more reflective with a lower heat gain, and are more difficult to see through. Darker colors provide better daytime visibility. These colors absorb light and heat while transmitting less light and having lower surface brilliance. Twitchell's specially designed TEXTILENE® SUNSURE® fabric can create an ideal balance between unique high quality looks and the proper amount of shade.



White  
T91NCS011 x 54"

Yellow  
T91NCS172 x 54"

Jade  
T91NCT020 x 54"

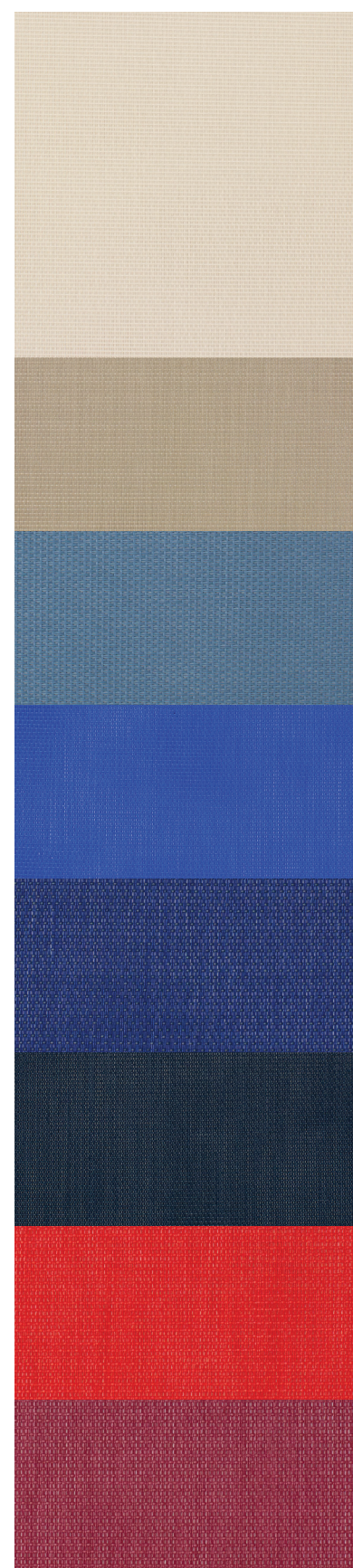
Mayan Teal  
T91NCS025 x 54"

Forest Green  
T91NCS012 x 54"

Black  
T91NCS029 x 54"

Dove Grey  
T91NCS008 x 54"

Ninja Grey  
T91NCT023 x 54"



Alabaster  
T91NCS013 x 54"

Taupe  
T91NCS065 x 54"

Suncast  
T91NCS003 x 54"

Royal Blue  
T91NCS004 x 54"

Sea Isle Blue  
T91NCT003 x 54"

Dark Blue  
T91NCS002 x 54"

Red  
T91NCS059 x 54"

Maroon  
T91NCS057 x 54"

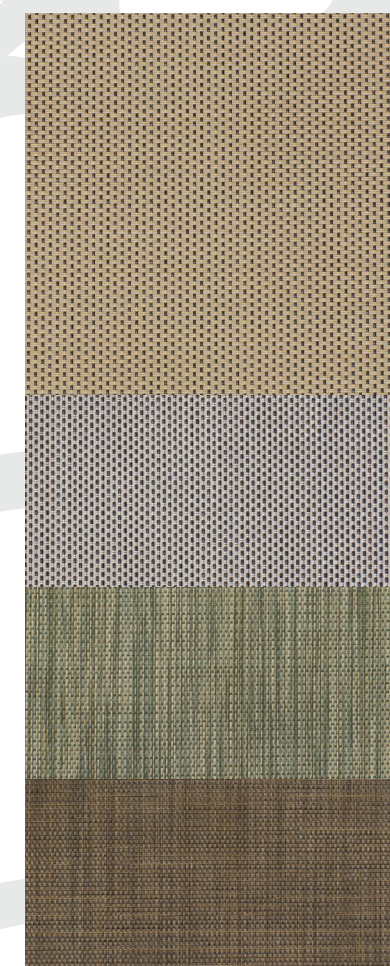


Birch Forest  
T91HCT008 x 54"

Linen  
T91HCT001 x 54"

Honey  
T91HCT024 x 54"

Meridian  
T91HCT023 x 54"

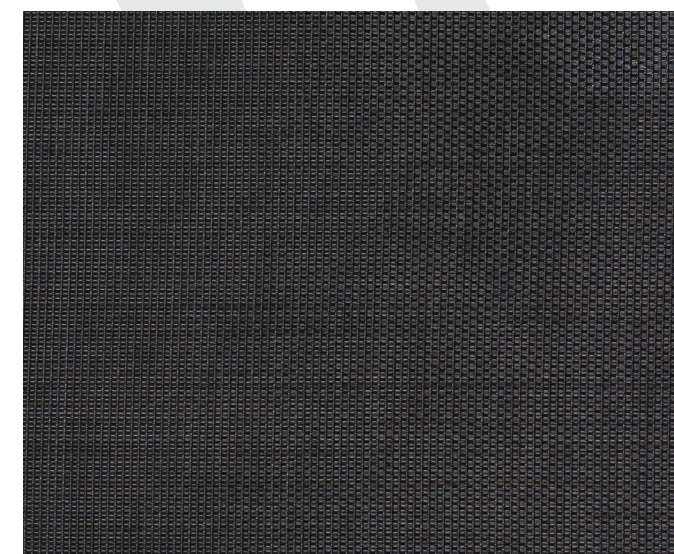


Winter Wheat  
T91NCT027 x 54"

Dense Titanium  
T91N5W100 x 54"

Autumn Fern  
T91HCT010 x 54"

Sierra Sands  
T91HCT009 x 54"



Black  
T91NCS029 x 54"

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.