Twitchell
Technical Products, LLC

TEXTILENE®
nano™ 97
BRAND FABRIC

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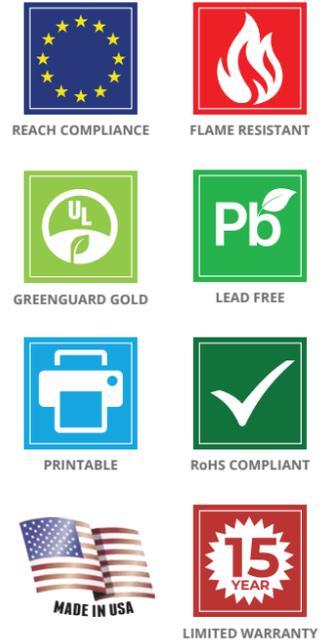
Children's Toy Act - Does not contain harmful phthalates listed under Section 108 of the Consumer Product Safety Improvement Act of 2008 (CPSIA).

Fire Classification - Passes California 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).

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.

REACH COMPLIANCE · **FLAME RESISTANT** · **GREENGUARD GOLD** · **LEAD FREE** · **PRINTABLE** · **RoHS COMPLIANT** · **MADE IN USA** · **15 YEAR LIMITED WARRANTY**

Technical Data

Item Number: T18F4S, T18F4T

Product Description: A fabric usine .014" diamete vinyl-coated 420 denier polyester core yarn in the warp and fill.

Attribute	ASTM	Warp	Fill	Typical
Construction, end/inch	D3775-12	38 ±0.5	40.0 ±0.5	
Weight, oz/yd²	D3776-09			16.2
Weight, g/m²	D3776-09			549.3
Tensile Strength (grab), lbf / daN	D5034-09	414.3 / 184.3	409.2 / 182.0	
Tensile Strength (strip), lbf / daN	D5035-11	220.6 / 98.1	249.3 / 110.9	
Tear Strength (trapezoidal), lbf / daN	D5733	40.1 / 17.8	37.4 / 16.6	
Elongation, %	D5035-11	11.1	12.5	
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	Trace Discoloration		
Mildew Resistance	G21-13	No Growth		
Thickness, inches / mm	D1777-96			0.0275 / 0.699

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

Style	Total Solar			Visible			Insulating Glass			Insulating Glass		
	Ts	Rs	As	Ts	Rs	As	1/2" Clr.	1" Clr.	1" HA	1/2" Clr.	1" Clr.	1" HA
Flat Black Profile Angle 0	2	4	94	2	4	94	0.22	0.17	0.12	0.16	0.10	0.09
Flat Black Profile Angle 45	1	2	97	1	2	97	0.12	0.12	0.12	0.09	0.09	0.09

DISTRIBUTED OR MANUFACTURED BY:

15 YEAR LIMITED WARRANTY

T18F4S002
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.

TEXTILENE® nano™ 97 is a durable, yet lightweight synthetic fabric. It is lighter and finer with the same technical qualities as the original TEXTILENE®. TEXTILENE® nano™ 97 is excellent for exterior and interior use. It is flame resistant, fade resistant, and can reduce energy costs while blocking up to 97% of the sun's harmful rays.

*Custom colors and widths available. Minimum order of 1000 yds. Upcharges may apply. ** Available in 33.3 lyd rolls.
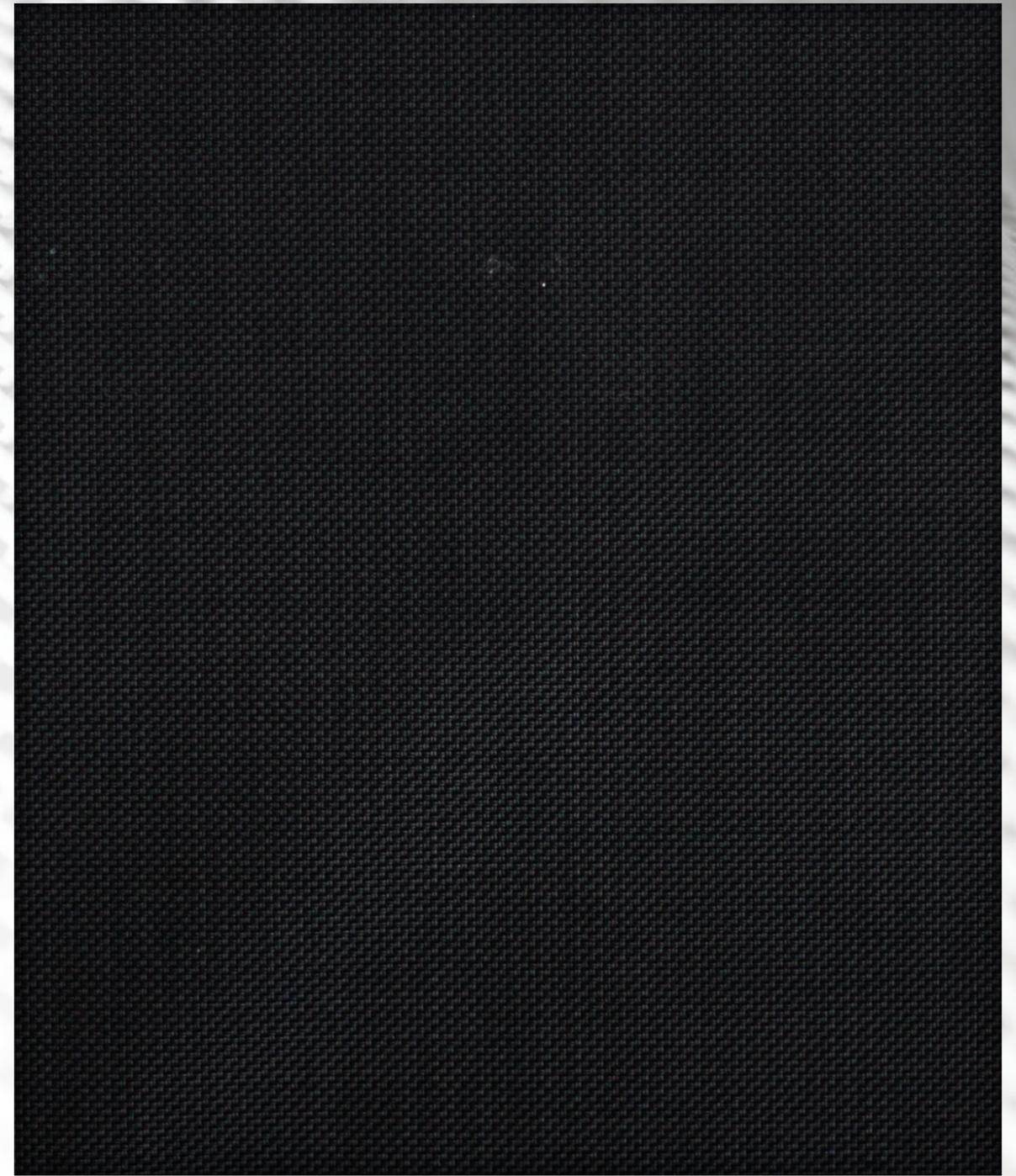
Flat Black
T18F4S002 x 126"

Charcoal
T18F4T008 x 126"

Espresso Texture
T18F4T006 x 126"

Tobacco
T18F4T007 x 126"

Granite
T18F4T005 x 126"

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T18F4S002
Flat Black

126" = 320.04 cm