



# TN-42-SM

## TN-42-SM PRODUCT DATA SHEET

The Turf Nation TN-42-SM is engineered to be the ultimate professional grade surface, firm and fast. TN-42-SM surfaces are purposefully designed to enhance player performance and maximize safety



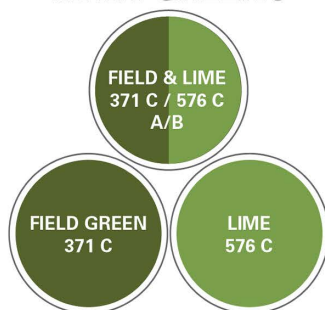
### TN-42-SM FEATURES



SPECIFICATION	GRASS ZONE	GRASS ZONE	PRODUCTION SPECIFICATIONS
FIBER	JULNIC	JULNIC	GRASS ZONE: 42 oz.
FIBER TYPE	SLIT FILM	MONOFILAMENT	POLYETHYLENE
FIBER HEIGHT	2.25 INCHES / 57 mm	2.25 INCHES / 57 mm	BACKING: 8 oz.
FIBER DENIER	9,000 DENIER / 10,000 DTEX	10,800 DENIER / 12,000 DTEX	SECONDARY BACKING: 26 oz.
FIBER MICRONS	115	350	TOTAL SYSTEM WEIGHT: 76 oz.
FILAMENT STRUCTURE	7 FIBRILS	6 FIBRILS	STANDARD COLOR: FIELD GREEN & FIELD/LIME
FIBRIL WIDTH	0.061 INCHES / 1.5 mm	0.0512 INCHES / 1.3 mm	AVAILABLE IN OTHER PILE HEIGHTS

\*These specifications are standard and may vary slightly due to manufacturing tolerances or consumer specifications

### MAIN GREENS



### DESIGNER COLOR PALLETTE



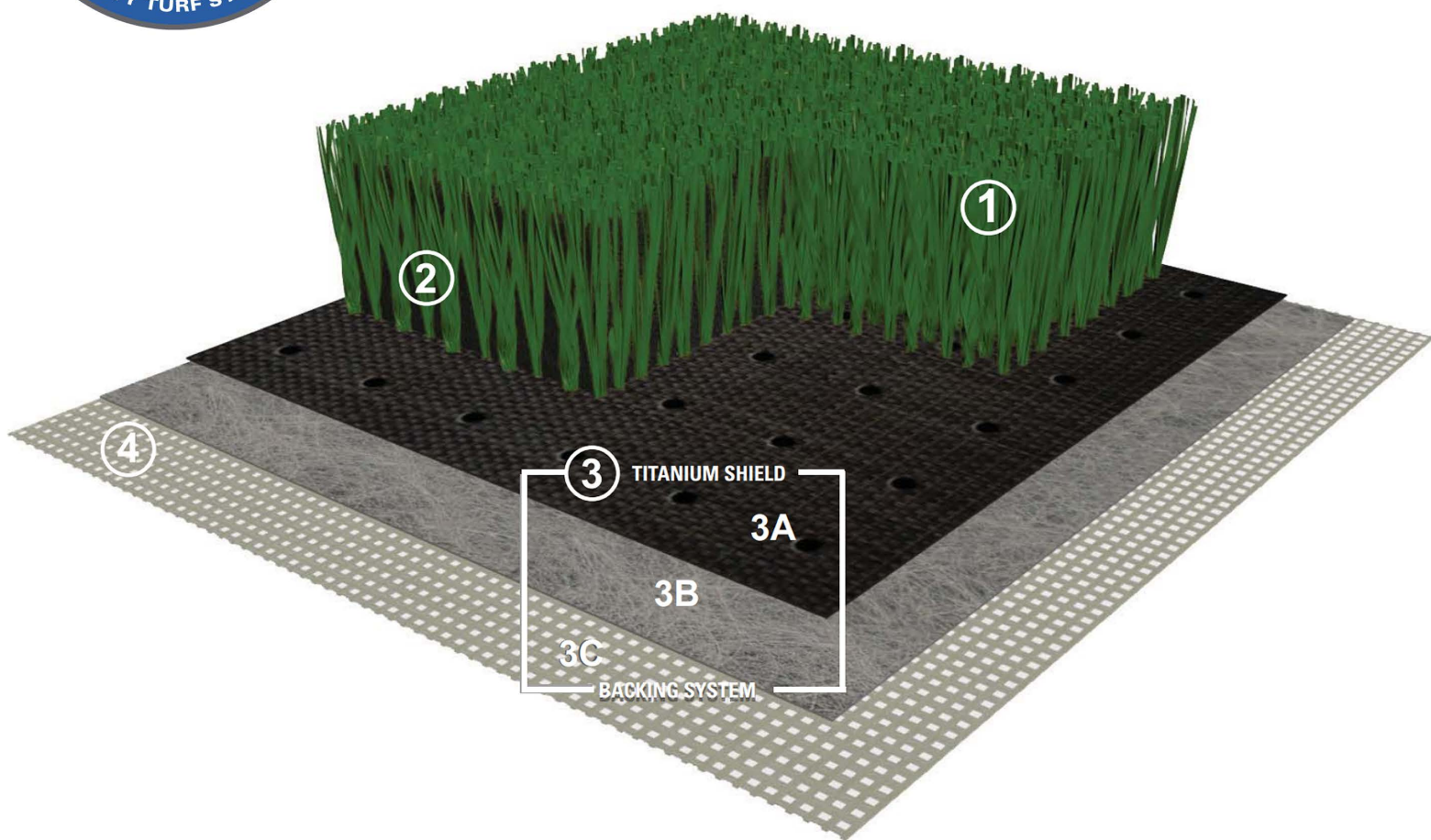
\*YARN DYE LOTS MAY HAVE SOME VARIATION FROM STATED PANTONE COLORS, PLEASE REQUEST YARN SAMPLES FOR A MORE ACCURATE EXAMPLE OF THE COLORS USED





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## TN-42-SM PRODUCT BACKING SHEET



## TN-42-SM SYNTHETIC TURF SYSTEM

- ① **TN-42-SM** Dual fiber is made with a blend of slit-film and monofilament for unsurpassed durability and performance
- ② Specialized infill mixture designed to optimize performance and player safety
- ③ **Titanium Shield Backing System**  
Our premier backing system includes multiple layers for long lasting play and performance
  - 3A. Woven 18-Pic Polybac to secure fiber retention
  - 3B. Non-Woven 80-Gram Colbond affords maximum dimensional stability
  - 3C. Woven 5-Pic synthetic layer to enhance seaming properties
- ④ Premium grade urethane coating to ensure a superior tuft bind





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	TEST CODE	TEST RESULTS	TEST NAME	TEST DESCRIPTION	
PERFORMANCE TESTING	ASTM F355-01	Gmax 105 / HIC 310	Gmax Rating	Shock-absorbing properties of playing surface systems and materials	
	ASTM F1015-03	34 ± 2	Relative Abrasive Index	Relative abrasiveness of synthetic turf playing surfaces	
	ASTM F2117-01	30.43 INCHES / 77.3 cm	Average Ball Rebound Height	Vertical rebound characteristics of sports surface/ball systems; acoustical measurement	
	ASTM F2117-01	0.38 (CR)	Coefficient of restitution (CR)	Vertical rebound characteristics of sports surface/ball systems; acoustical measurement	
	ASTM F1551-03	30.96 INCHES / 78.63 cm	Average ball bounce	Comprehensive characterization of synthetic turf playing surfaces and materials	
	ASTM F1551-03	Static COF: 1.35 / Dynamic 0.84	Soccer shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials	
	ASTM F1551-03	Static COF: 1.29 / Dynamic: 0.80	Soccer shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials	
	ASTM F1551-03	Static COF: 1.30 / Dynamic: 0.82	Football shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials	
	ASTM F1551-03	Static COF: 1.13 / Dynamic: 0.80	Football shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials	
SYSTEM TESTING	ASTM D5848-07	76 oz Y <sup>2</sup> / 2.57 kg M <sup>2</sup>	Total Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	42 oz Y <sup>2</sup> / 1.42 kg M <sup>2</sup>	Pile Height	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	8 oz Y <sup>2</sup> / 0.27 kg M <sup>2</sup>	Primary Backing Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	26 oz Y <sup>2</sup> / 0.88 kg M <sup>2</sup>	Secondary Backing Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5823-05A	2 Inches / 51 mm	Pile Height	Turf height of pile floor coverings	
	ASTM D1335-05	Exceeds STC Standards	Tuft Bind Strength	Tuft bind of pile yarn floor coverings	
	ASTM D5034-09	(MD) 301 lbs force / 1,339 N	Grab Tear Strength	Breaking strength and elongation of textile fabrics (Grab test)	
	ASTM D5034-09	(CMD) 337 lbs force / 1,499 N	Grab Tear Strength	Breaking strength and elongation of textile fabrics (Grab test)	
	ASTM D5793-05	8 per 3 inches / 8 per 7.6 cm	Stitches per 3 inches	Binding sites per unit length or width of pile yarn floor coverings	
	ASTM D5793-05	3/8 inch / 9.5 mm	Machine Gauge	Binding sites per unit length or width of pile yarn floor coverings	
	ASTM D2859-06	PASS	Flammability - Pill Burn	Ignition characteristics of finished textile floor covering materials	
	ASTM E648-08B	N/A	Flammability - Radiant Panel	Critical radiant flux of floor-covering systems using a radiant heat energy source	
	ASTM DF1951-09	PASS	Wheel Chair Accessibility	Determination of accessibility of surface systems under and around playground equipment	
BS7044-METHOD 4	Exceeds 40 Inches (1016 mm) an hr	Infiltration Rate	Infiltration rate-buffered ponding-type infiltrometer		
FIBER TESTING	ASTM D1907-07	10,000 DENIER / 11,100 DTEX	10,800 DENIER / 12,000 DTEX	Fiber Denier	Linear density of textile fibers by the Skein Method
	ASTM D3218-07	0.046 Inches / 1.041 mm	0.0128 Inches / 0.325 mm	Fiber Thickness	Standard specification for polyolefin monofilaments
	ASTM D3218-07	0.061 Inches / 1.2 mm	0.0512 Inches / 1.3 mm	Fibril Width	Standard specification for polyolefin monofilaments
	ASTM D789-07	248° F / 120° C	248° F / 120° C	Fiber Melting Point	Determination of solution viscosities of polyamide (Pa)
	ASTM D792-08	0.959	0.95	Fiber Specific Gravity	Density and specific gravity (relative density) of plastics by displacement
	ASTM D2256-02(2008)	15.81 lbs	27.40 lbs	Fiber Breaking Strength	Tensile properties of yarns by the single-strand method
	ASTM D2256-02(2008)	64.93%	79.6%	Fiber Elongation	Tensile properties of yarn by the single-strand method

\*All specifications and results subject to manufacturers tolerances

