



TN-46-SM

TN-46-SM PRODUCT DATA SHEET

The Turf Nation TN-46-SM is engineered to be the ultimate professional grade surface, firm and fast. TN-46-SM surfaces are purposefully designed to enhance player performance and maximize safety



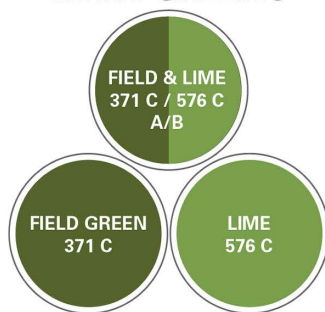
TN-46-SM FEATURES



SPECIFICATION	GRASS ZONE	GRASS ZONE	PRODUCTION SPECIFICATIONS
FIBER	JULNIC	JULNIC	GRASS ZONE: 46 oz.
FIBER TYPE	SLIT FILM	MONOFILAMENT	POLYETHYLENE
FIBER HEIGHT	2.25 INCHES / 57 mm	2.25 INCHES / 57 mm	BACKING: 8 oz.
FIBER DENIER	10,000 DENIER / 11,100 DTEX	10,800 DENIER / 12,000 DTEX	SECONDARY BACKING: 26 oz.
FIBER MICRONS	110	325	TOTAL SYSTEM WEIGHT: 80 oz.
FILAMENT STRUCTURE	7 FIBRILS	6 FIBRILS	STANDARD COLOR: FIELD GREEN & FIELD/LIME
FIBRIL WIDTH	0.05514 INCHES / 1.4 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



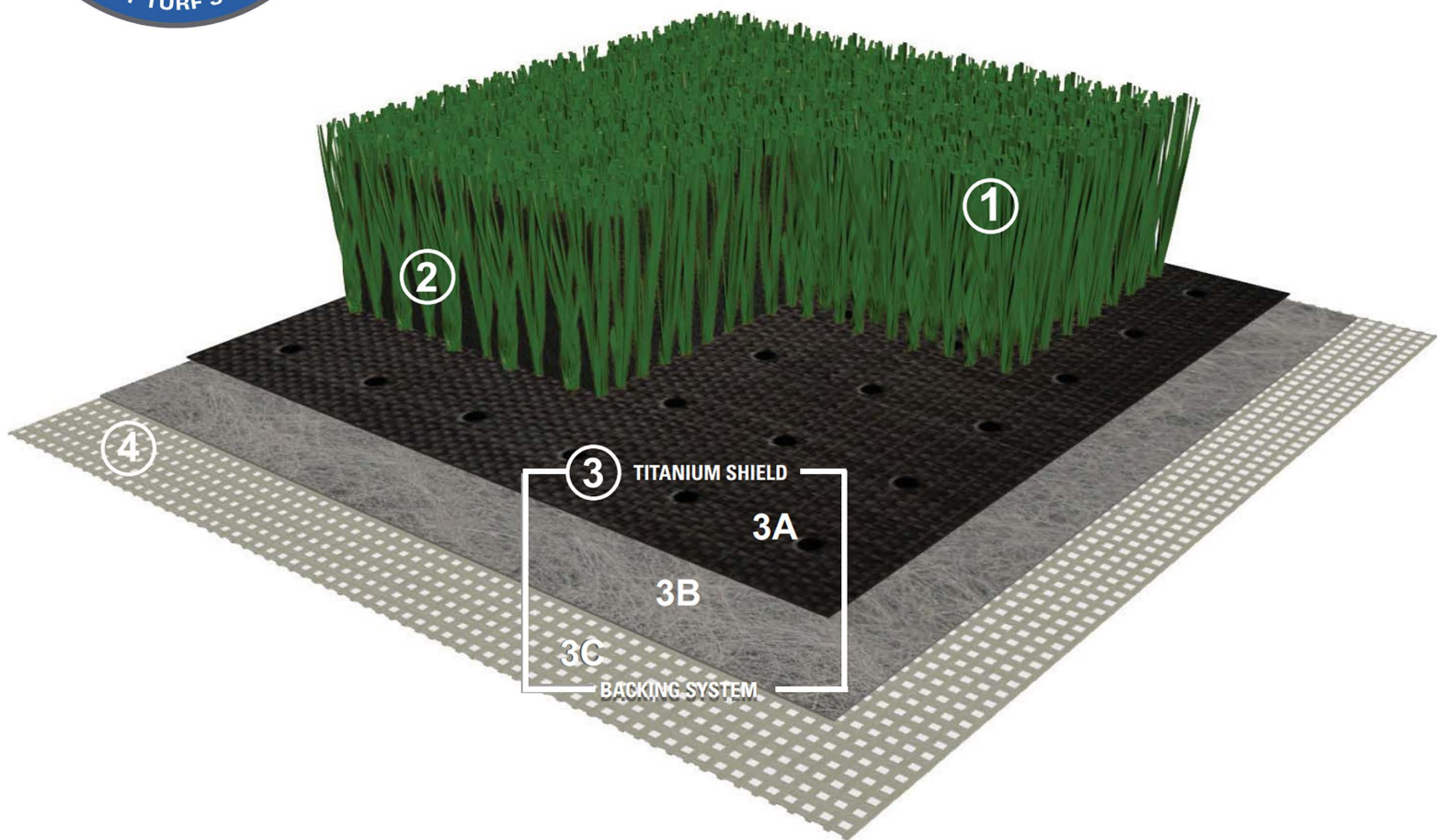
*YARN DYE LOTS MAY HAVE SOME VARIATION FROM STATED PANTONE COLORS, PLEASE REQUEST YARN SAMPLES FOR A MORE ACCURATE EXAMPLE OF THE COLORS USED





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TN-46-SM PRODUCT BACKING SHEET



TN-46-SM SYNTHETIC TURF SYSTEM

- ① **TN-46-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	80 oz Y ² / 2.71 kg M ²	Total Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	46 oz Y ² / 1.56 kg M ²	Pile Height	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	8 oz Y ² / 0.27 kg M ²	Primary Backing Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5848-07	26 oz Y ² / 0.88 kg M ²	Secondary Backing Weight	Mass per unit area of pile yarn floor coverings	
	ASTM D5823-05A	2.25 Inches / 57 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	9 per 3 inches / 9 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	Slit Film	Monofilament	Fiber Denier
10,000 DENIER / 11,100 DTEX			10,800 DENIER / 12,000 DTEX		
ASTM D3218-07		0.00426 Inches / 1.041 mm	0.0128 Inches / 0.325 mm	Fiber Thickness	Standard specification for polyolefin monofilaments
ASTM D3218-07		0.05514 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

