



TN-M4

TN-M4 PRODUCT DATA SHEET

The Turf Nation TN-M4 surface is engineered to be a reliable monofilament surface, robust and durable. M4 surfaces are purposefully designed to enhance player performance and safety



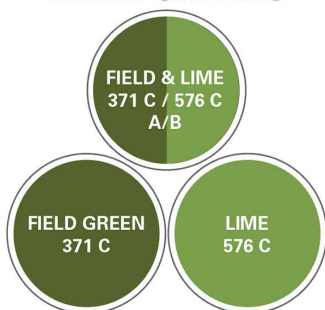
TN-M4 FEATURES



SPECIFICATION	GRASS ZONE	PRODUCTION SPECIFICATIONS
FIBER	JULNIC	GRASS ZONE: 49 oz.
FIBER TYPE	MONOFILAMENT	POLYETHYLENE
FIBER HEIGHT	2.0 INCHES / 51 mm	BACKING: 8 oz.
FIBER DENIER	10,800 DENIER / 12,000 DTEX	SECONDARY BACKING: 26 oz.
FIBER MICRONS	325	TOTAL SYSTEM WEIGHT: 83 oz.
FILAMENT STRUCTURE	6 FIBRILS	STANDARD COLOR: FIELD GREEN & FIELD/LIME
FIBRIL WIDTH	0.0551 INCHES / 1.4 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



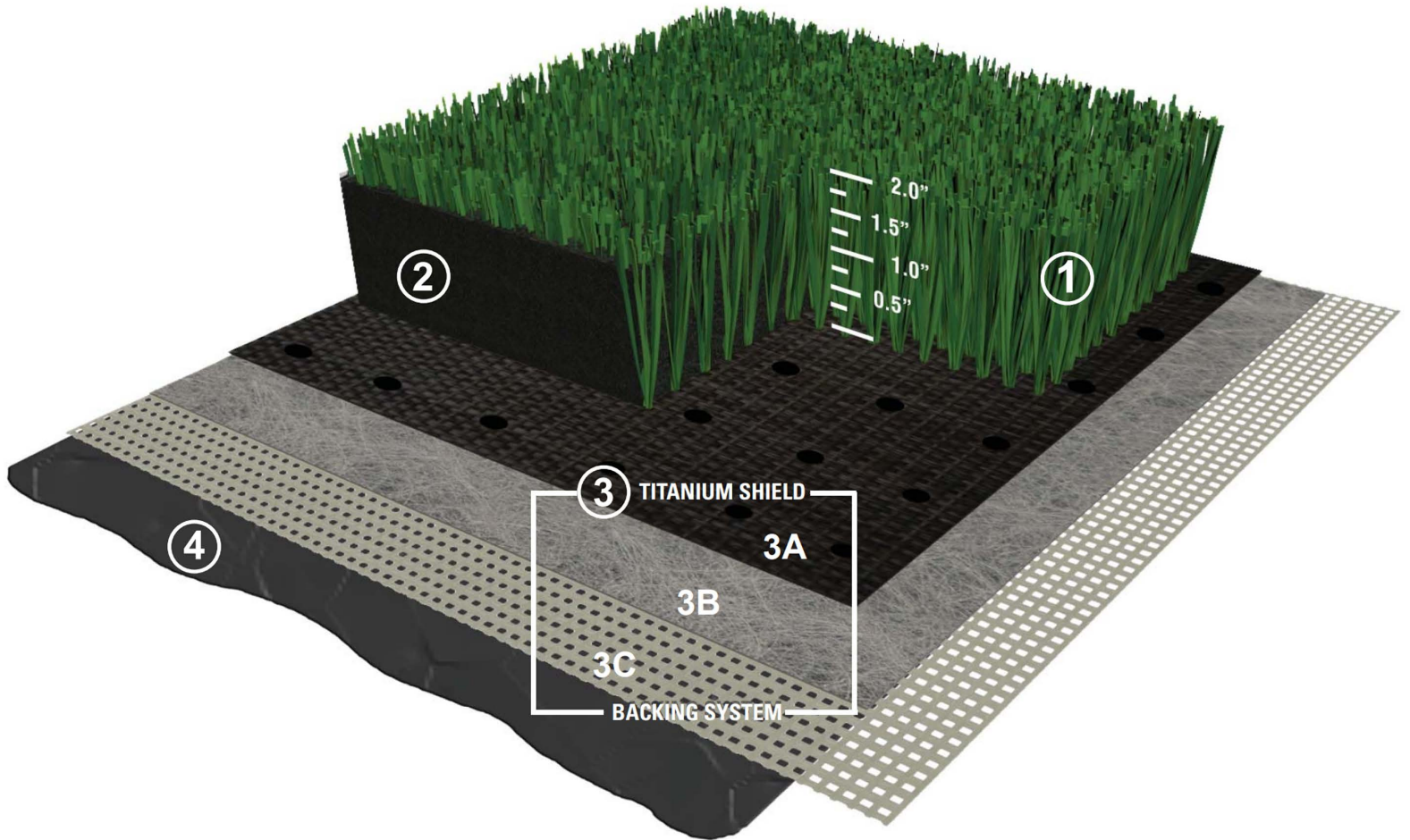
*YARN DYE LOTS MAY HAVE SOME VARIATION FROM STATED PANTONE COLORS, PLEASE REQUEST YARN SAMPLES FOR A MORE ACCURATE EXAMPLE OF THE COLORS USED





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TN-M4 PRODUCT BACKING SHEET



TN-M4 SYNTHETIC TURF SYSTEM

- ① **TN-M4** Monofilament turf fiber is made with Julnic fiber 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 109 / HIC 315	Gmax Rating	Shock-absorbing properties of playing surface systems and materials
	ASTM F1015-03	16 ± 2	Relative Abrasive Index	Relative abrasiveness of synthetic turf playing surfaces
	ASTM F2117-01	28.7 INCHES / 72.9 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	31.3 INCHES / 79.5 cm	Average ball bounce	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.60 / Dynamic 1.00	Soccer shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.40 / Dynamic: 1.00	Soccer shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.50 / Dynamic: 1.10	Football shoe traction - Dry	Comprehensive characterization of synthetic turf playing surfaces and materials
	ASTM F1551-03	Static COF: 1.50 / Dynamic: 1.00	Football shoe traction - Wet	Comprehensive characterization of synthetic turf playing surfaces and materials
SYSTEM TESTING	ASTM D5848-07	83 oz Y ² / 2.81 kg M ²	Total Weight	Mass per unit area of pile yarn floor coverings
	ASTM D5848-07	49 oz Y ² / 1.66 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	2.0 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) 277.1 lbs force / 1,233 N	Grab Tear Strength	Breaking strength and elongation of textile fabrics (Grab test)
	ASTM D5034-09	(CMD) 258.1 lbs force / 1,148 N	Grab Tear Strength	Breaking strength and elongation of textile fabrics (Grab test)
	ASTM D5793-05	8 per 3 inches / 8 per 7.62 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	10,800 DENIER / 12,100 DTEX	Fiber Denier	Linear density of textile fibers by the Skein Method
	ASTM D3218-07	0.00128 Inches / 0.325 mm	Fiber Thickness	Standard specification for polyolefin monofilaments
	ASTM D3218-07	0.0512 Inches / 1.3 mm	Fibril Width	Standard specification for polyolefin monofilaments
	ASTM D789-07	248° F / 120° C	Fiber Melting Point	Determination of solution viscosities of polyamide (Pa)
	ASTM D792-08	0.938	Fiber Specific Gravity	Density and specific gravity (relative density) of plastics by displacement
	ASTM D2256-02(2008)	18.64 lbs / 83 N	Fiber Breaking Strength	Tensile properties of yarns by the single-strand method
ASTM D2256-02(2008)	66.8%	Fiber Elongation	Tensile properties of yarn by the single-strand method	

*All specifications and results subject to manufacturers tolerances

