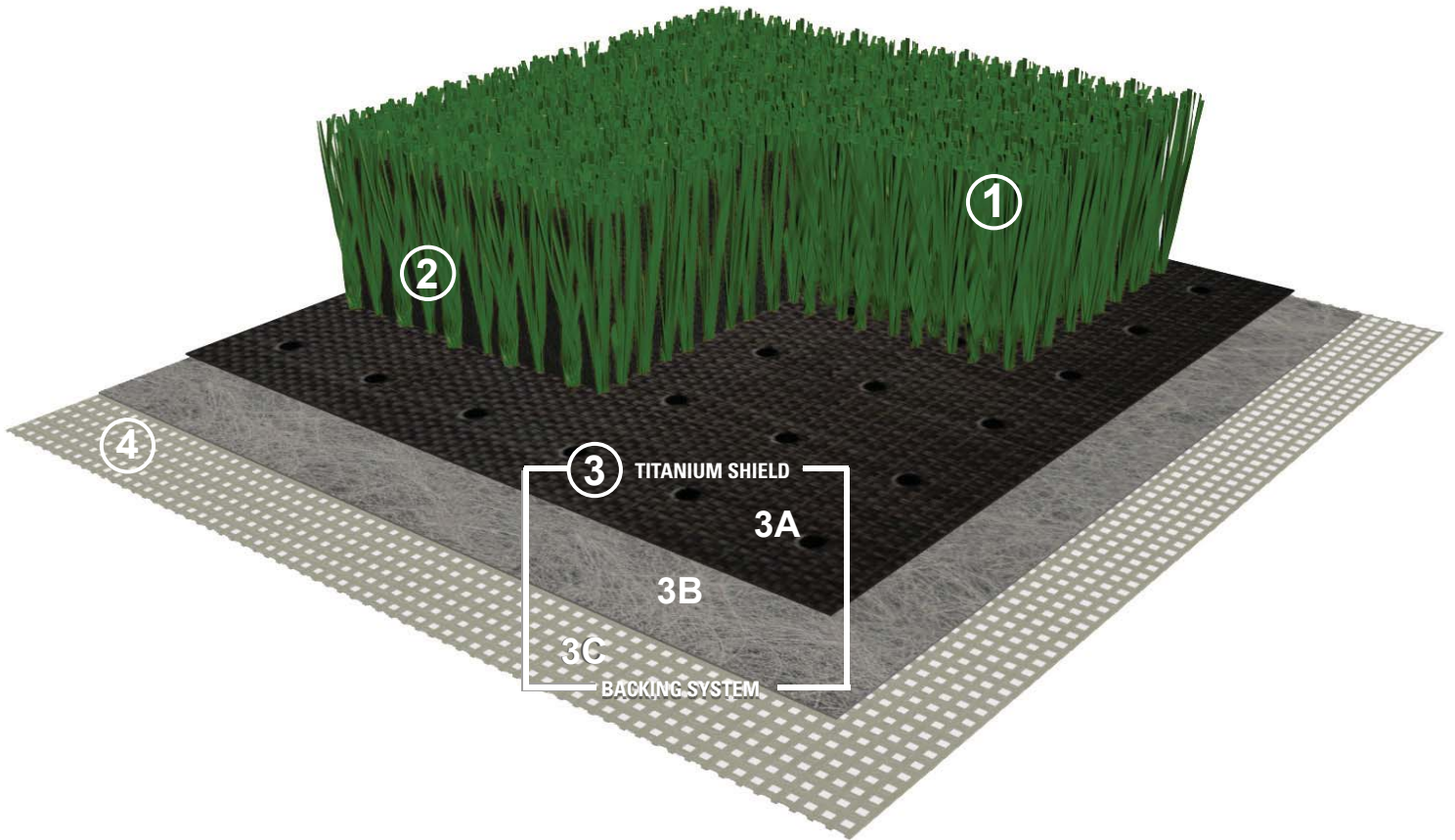


TURF NATION™



TN-46-SM

PDS-TN-46-SM PRODUCT DATA 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.





The TN-46-SM is engineered to be an affordable dual fiber system. Incorporating the perfect balance of high grade monofilament and slit film fibers, the TN-46-SM features maximum player safety and optimal sports specific performance that is durable.

TN-46-SM FEATURES



| SPECIFICATION | GRASS ZONE | | PRODUCT SPECIFICATIONS: TN4651AXCM |
|--------------------|----------------------------|-----------------------------|---|
| FIBER | SLIT FILM | MONOFILAMENT | GRASS ZONE: 46 oz. |
| FIBER TYPE | SLIT FILM | MONOFILAMENT | S / M FIBER SYSTEM |
| FIBER HEIGHT | 2.0 INCHES / 51 MM | 2.0 INCHES / 51 MM | BACKING: 8 oz. |
| FIBER DENIER | 9,000 DENIER / 10,000 DTEX | 10,800 DENIER / 12,000 DTEX | SECONDARY BACKING: 22 oz. |
| FIBER MICRONS | 115 | 350 | TOTAL SYSTEM WEIGHT: 76 oz. |
| FILAMENT STRUCTURE | 7 FIBRILS | 6 FIBRILS | STANDARD COLOR: FIELD GREEN / OLIVE GREEN |
| FIBRIL WIDTH | 0.0472 INCHES / 1.2 MM | 0.0551 INCHES / 1.4 MM | AVAILABLE IN 2.25" AND 2.50" PILE HEIGHTS |

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

STANDARD COLORS

DESIGNER COLOR PALLETTE



Printed colors only approximate the actual fiber colors. Physical fiber samples are available upon request. Custom colors may also be available, additional charges and minimum quantities may apply to non-standard colors.



TURF NATION™ TN-46-SM

PRODUCT DETAIL SHEET



| | TEST CODE | TEST RESULTS | | TEST DESCRIPTION | TEST NAME |
|----------------------------|----------------------|--|---------------------------------------|---|--|
| PERFORMANCE TESTING | ASTM F355-01 | G _{max} 105 / 310 HIC | | G _{max} Rating | Standard test method for shock-absorbing properties of playing surface systems and materials |
| | ASTM F1015-03 | 34 ± 2 | | RELATIVE ABRASIVE INDEX | Standard test method for relative abrasiveness of synthetic turf playing surfaces |
| | ASTM F2117-01 | 30.43 INCHES / 77.3 CM | | AVERAGE BALL REBOUND HEIGHT | Standard test method for vertical rebound characteristics of sports surface/ball systems; acoustical measurement |
| | ASTM F2117-01 | 0.38 (CR) | | COEFFICIENT OF RESTITUTION (CR) | Standard test method for vertical rebound characteristics of sports surface/ball systems; acoustical measurement |
| | ASTM F1551-03 | 30.96 INCHES / 78.63 CM | | AVERAGE BALL BOUNCE | Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials |
| | ASTM F1551-03 | STATIC COF: 1.35 DYNAMIC COF: 0.84 | | SOCCER SHOE TRACTION – DRY | Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials |
| | ASTM F1551-03 | STATIC COF: 1.29 DYNAMIC COF: 0.80 | | SOCCER SHOE TRACTION – WET | Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials |
| | ASTM F1551-03 | STATIC COF: 1.30 DYNAMIC COF: 0.82 | | FOOTBALL SHOE TRACTION – DRY | Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials |
| | ASTM F1551-03 | STATIC COF: 1.130 DYNAMIC COF: 0.80 | | FOOTBALL SHOE TRACTION – WET | Standard test methods for comprehensive characterization of synthetic turf playing surfaces and materials |
| SYSTEM TESTING | ASTM D5848-07 | 77.51 OZ Y ² / 2.19 KG M ² | | TOTAL WEIGHT | Standard test method for mass per unit area of pile yarn floor coverings |
| | ASTM D5848-07 | 46.5 OZ Y ² / 1.31 KG M ² | | PILE WEIGHT | Standard test method for mass per unit area of pile yarn floor coverings |
| | ASTM D5848-07 | 7.72 OZ Y ² / 0.21 KG M ² | | PRIMARY BACKING WEIGHT | Standard test method for mass per unit area of pile yarn floor coverings |
| | ASTM D5848-07 | 23.29 OZ Y ² / 0.66 KG M ² | | SECONDARY BACKING WEIGHT | Standard test method for mass per unit area of pile yarn floor coverings |
| | ASTM D5823-05A | 2.25 INCHES / 57.15 MM | | PILE HEIGHT | Standard test method for tuft height of pile floor coverings |
| | ASTM D1335-05 | EXCEEDS STC STANDARDS | | TUFT BIND STRENGTH | Standard test method for tuft bind of pile yarn floor coverings |
| | ASTM D5034-09 | (MD) 301 LBS FORCE / 1339 N | | GRAB TEAR STRENGTH | Standard test method for breaking strength and elongation of textile fabrics (grab test) |
| | ASTM D5034-09 | (CMD) 337 LBS FORCE / 1499 N | | GRAB TEAR STRENGTH | Standard test method for 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 | Standard test method for binding sites per unit length or width of pile yarn floor coverings |
| | ASTM D5793-05 | 3/8 INCH / 9.5 MM | | MACHINE GAUGE | Standard test method for binding sites per unit length or width of pile yarn floor coverings |
| | ASTM D2859-06 | PASS | | FLAMMABILITY – PILL BURN | Standard test method for ignition characteristics of finished textile floor covering materials |
| | ASTM E648-08B | N/A | | FLAMMABILITY – RADIANT PANEL | Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source |
| | ASTM F1951-09 | PASS | | WHEEL CHAIR ACCESSIBILITY | Standard specification for determination of accessibility of surface systems under and around playground equipment |
| | BS7044 - METHOD 4 | EXCEEDS 40 INCHES (1016 MM) PER HR | | INFILTRATION RATE | Determination of infiltration rate-buffered ponding-type infiltrometer |
| | FIBER TESTING | ASTM D1907-07 | SLIT FILM: 9,000 DENIER / 10,000 DTEX | MONOFILAMENT: 10,800 DENIER / 12,000 DTEX | FIBER DENIER |
| ASTM D3218-07 | | SLIT FILM: 0.041 INCHES / 1.041 MM | MONOFILAMENT: 0.03 INCHES / 0.762 MM | FIBER THICKNESS | Standard specification for polyolefin monofilaments |
| ASTM D3218-07 | | SLIT FILM: 0.04 INCHES / 1.2 MM | MONOFILAMENT: 0.05 INCHES / 1.4 MM | FIBER WIDTH | Standard specification for polyolefin monofilaments |
| ASTM D789-07 | | SLIT FILM: 248°F / 120°C | MONOFILAMENT: 250°F / 121°C | FIBER MELTING POINT | Standard test methods for determination of solution viscosities of polyamide (pa) |
| ASTM D792-08 | | SLIT FILM: 0.95 | MONOFILAMENT: 0.95 | FIBER SPECIFIC GRAVITY | Standard test methods for density and specific gravity (relative density) of plastics by displacement |
| ASTM D2256-02(2008) | | SLIT FILM: 25.46 LBS/FORCE/FT | MONOFILAMENT: 27.40 LBS/FORCE/FT | FIBER BREAKING STRENGTH | Standard test method for tensile properties of yarns by the single-strand method |
| ASTM D2256-02(2008) | | SLIT FILM: 34.2 % | MONOFILAMENT: 79.6 % | FIBER ELONGATION | Standard test method for tensile properties of yarns by the single-strand method |