# *Ameri Sport 100% Mono Testing*

*Report #:* *97377*

*Report Date:* *September 09, 2025*

*Client:* *All American Manufacturing*

*3919 Smyrna Church Road*

*Chatsworth, GA 30705*

*Test Report Approval:*

*Erle Miles, III, Lab Director Testing Services (TSI) LLC*

*TSi Accreditation:* *Our Laboratory is accredited by NVLAP (Lab Code 100108-0), which is part of NIST and the US Dept of Commerce. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, and any agency of the U.S. Government. The above testing is under the scope of our NVLAP accreditation. Testing Services LLC is a scientific body member of ISSS (International Sports Surface Science Society) and a member of the Synthetic Turf Council (STC).*

TESTING SERVICES

*TEST SCOPE:* *Testing Services LLC was instructed by the client to perform product testing on a finished dual fiber (monofilament/slit film) 47 oz 1.5" synthetic turf in accordance with ASTM, EN, FIFA or other specifications requested by the client.*

*TEST METHODS REQUESTED:*

| *Testing Services Inc. was instructed by the client to test for the following…* | | | |
|---|---|---|---|
| *Standard:* | *ASTM D5848* | *Test Method:* | *Standard Test Method for Mass per Unit Area of Pile Yarn Floorcoverings (Weights)* |
| *Standard:* | *ASTM D5823* | *Test Method:* | *Standard Test Method for Tuft Height of Pile Yarn Floorcoverings (Tuft Height)* |
| *Standard:* | *ASTM D1335* | *Test Method:* | *Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings (Tuft Lock Strength)* |
| *Standard:* | *ASTM D5034* | *Test Method:* | *Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Tear Strength)* |
| *Standard:* | *EN 15336* | *Test Method:* | *Surface for Sports Areas, Exposure for Synthetic Turf to Simulated Wear (LiSport)* |
| *Standard:* | *FIFA Section 17* | *Test Method:* | *Procedure for Simulated Mechanical Abrasion* |
| *Standard:* | *EN 15336* | *Test Method:* | *Surface for Sports Area, Exposure for Synthetic Turf to Simulated Wear (LiSport)* |

*SYSTEM TESTED:*

| | |
|---|---|
| *Turf Identification* | *Amerisport 100% Mono* |
| *Infill System* | *70% Rubber 30% Silica Sand ½" Exposed* |
| *Pad/Underlayment* | *None* |
| *Test Period* | *August 25, 2025 – September 4, 2025* |

*TEST DATA:*

| | Test Method | Date Tested | Test Description | Test Result |
|---|---|---|---|---|
| *Construction* | *ASTM D5848-20* | *9/08/2025* | *Total Product Weight* | *79.64 oz/yd²* |
| | *ASTM D5848-20* | *9/082025* | *Pile Yarn Weight* | *50.10 oz/yd²* |
| | *ASTM D5848-20* | *9/08/2025* | *Primary Backing Weight* | *7.36 oz/yd²* |
| | *ASTM D5848-20* | *9/08/2025* | *Secondary Backing Weight* | *22.18 oz/yd²* |
| | *ASTM D5823-19* | *9/08/2025* | *Average Pile Height* | *2.00"* |
| | *ASTM D1335-21* | *9/08/2025* | *Average Tuft Bind Strength* | *9.0 lbs/force* |
| | *ASTM D5034-21* | *9/08/2025* | *Average Grab Tear-Length, MD* | *314 lbs/force* |
| | *ASTM D5034-21* | *9/08/2025* | *Average Grab Tear-Width, CMD* | *369 lbs/force* |

*METHODS REQUESTED:*

*TEST EQUIPMENT:*

| | |
|---|---|
| *Wear Tester:* | *Deltec Manual 1.2m LiSport* |
| *Model #:* | *Y2017 1701003* |
| *Date of Mfg:* | *1/2017* |
| *Dimensions:* | *3070mm X 1300mm* |

*TEST SCOPE:*

*This procedure simulates high levels of athletic use of synthetic turf in an accelerated period of time under laboratory conditions. Two studded rollers were traversed to and fro over the infilled turf to produce mechanical action of the surface that occurs during normal use. This report details the effects of this mechanical action as it relates to degradation of the pile fiber. The client, commissioned TS to evaluate simulated wear of submitted finished synthetic turf, referenced above, with the use of an infill system.The results are indicative of mechanical wear only and do not take into account the effects of weathering, uv degradation, or use of the turf outside of competition.*

*PROCEDURE:*

*A test specimen, 560mm X 2438mm, was cut from the sample lot to be exposed to mechanical abrasion. The specimen was infilled with above listed infill. The rollers were positioned onto the surface of the system, with the pressure set automatically @ 1kg per cm. All speeds of the machine components were set in accordance with FIFA & CEN standards. The design of the machine ensures that the studs do not repeatedly impact the same spots.*

*The Lisport was then activated for a prescribed number of cycles. The Lisport was stopped every 5,000 cycles and the pile fiber degradation was graded, the surface re-groomed, and displaced infill was reinstalled. Photos and fiber specimens were taken at each 5,000 increments.*

*DEVIATION FROM TEST METHOD:*

| *State reason for any deviation from, additions to, or exclusions from test method:* |
|---|
| *None* |

*TEST RESULTS:*

- *A scale of 1 to 5 was used for descriptive evaluation of the pile fibers due to the effect of mechanical wear (Lisport) at each 5,000 cycle interval.*
- *The following is an explanation of the scale:*

| *Rating* | *Description* |
|---|---|
| *1.0* | *None or Negligible* |
| *2.0* | *Slight* |
| *3.0* | *Moderate* |
| *4.0* | *Considerable* |
| *5.0* | *Severe* |

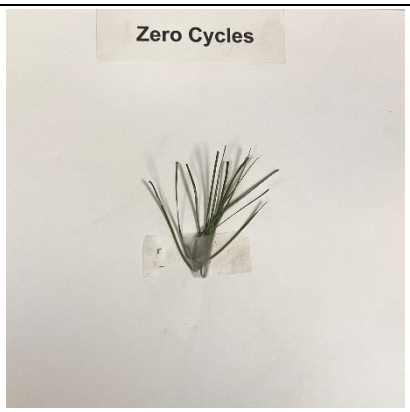
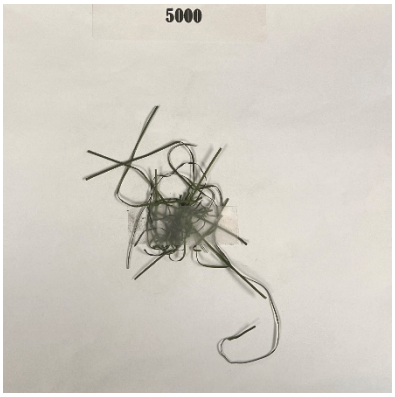
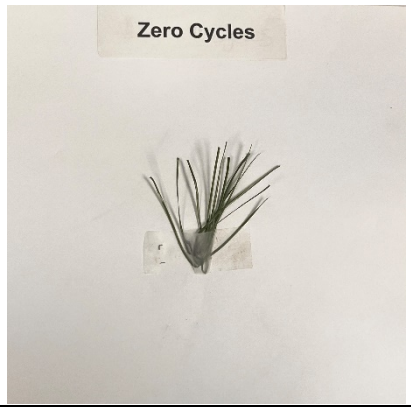
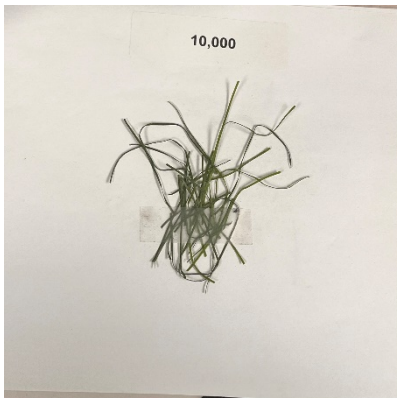
- *The following was rated using the referenced rating scale: tuft loss, pile flattening, fiber splitting, and infill dispersion.*

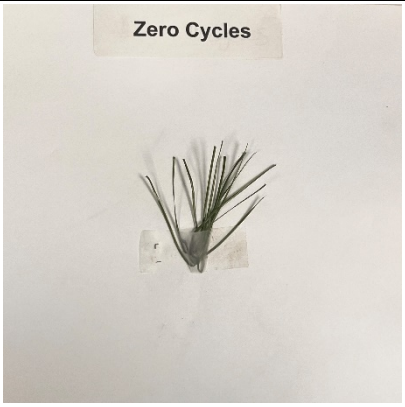
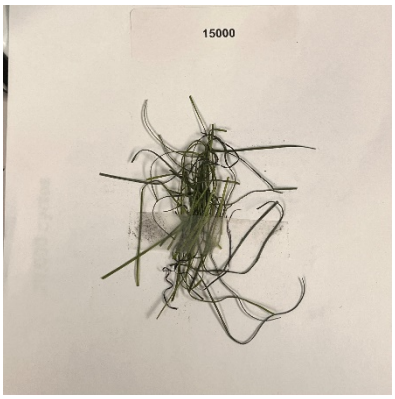
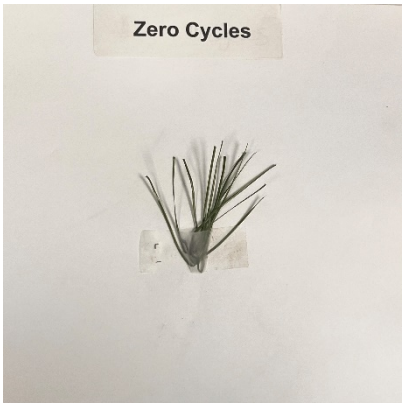
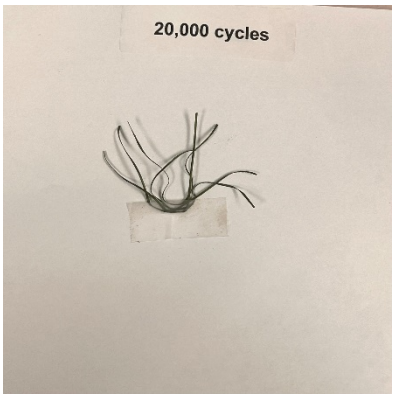
| *# of Cycles* | *Infill Dispersion*<br>*Slit Film* | *Tuft Loss*<br>*Slit Film* | *Compaction/Flattening*<br>*Slit Film* | *Fiber Splitting*<br>*Slit Film* |
|---|---|---|---|---|
| *5,000* | *3.0 Moderate* | *3.0 Moderate* | *2.0 Slight* | *1.0 None or Negligible* |
| *10,000* | *3.0 Moderate-4.0 Heavy* | *3.0 Moderate-4.0 Heavy* | *2.0 Slight* | *1.0 None or Negligible* |
| *15,000* | *3.0 Moderate-4.0 Heavy* | *3.0 Moderate-4.0 Heavy* | *2.0 Slight* | *1.0 None or Negligible* |
| *20,000* | *4.0 Heavy* | *4.0 Heavy* | *2.0 Slight* | *2.0 Slight* |

*Notes:*

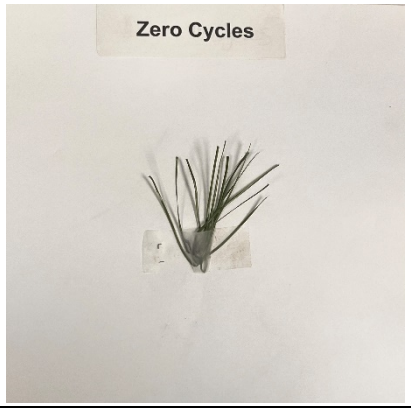
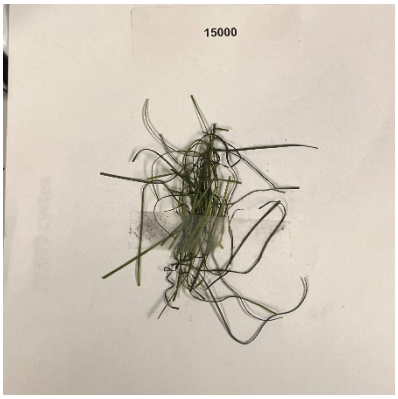
*> Based on the following "typical" use of the turf: 40 hours/per week, 50 weeks/per year or 2,000 hrs. of athletic competition, the Lisport wear would indicate at 20,000 cycles the equivalency of 8 years wear.*
*> Monofilament yarns began "thinning" at 10,000 cycles.*

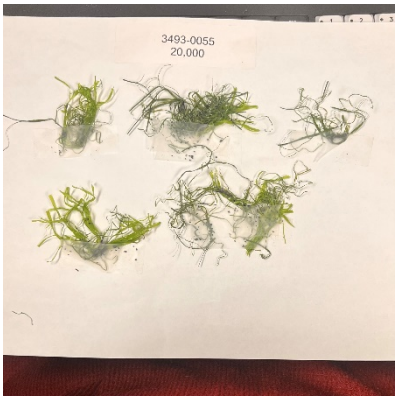
*APPENDIX A: Camera and Microscopic View of Fibers*

| | | |
|---|---|---|
| After 5,000 Cycles of LiSport Exposure |  |  |
| After 10,000 Cycles of LiSport Exposure |  |  |

| | | |
|---|---|---|
| After 15,000 Cycles of LiSport Exposure |  |  |
| After 20,000 Cycles of LiSport Exposure |  |  |

END OF REPORT

| | | |
|---|---|---|
| |  |  |

| | | |
|---|---|---|
| After 20,000 Cycles of LiSport Exposure | |  |

*PRECISION/BIAS:* *Gmax: The precision of the test method, conducted by interlaboratory testing, is estimated to be ± 5% for gmax and ± 10% for HIC. Users of this test report should consider the reproducibility limit as a general rule and the associated probability of 95%. Testing Services LLC undertakes all assignments for our clients on a best effort basis. Our results, findings, and judgements are based on the information using the latest test methods available. Testing Services LLC can only ensure the test results for the specific items evaluated. Unless otherwise noted in the deviation's sections of this report, all tests performed were in compliance with the stated test method.*

*PRECISION/BIAS:* *Pill Flammability: Level of uncertainty is not possible due to a lack of no standard reference to evaluate the precision of the pass/fail criterion. The only reportable result outlined in the standard is whether the charred portion of the test specimen extends within (1.0") of the edge of the hole in the steel frame. There are no requirements for quantitative measurement of the charred portion of the test specimen. No bias statement can be made since the true value cannot be established.*

# *END OF REPORT*

