

LABORATORY TEST REPORT

Report # 80995G b Test Number: 3192-3343 Report Date: August 18, 2020

FIFA Section 17, EN 15336 Simulated Abrasion, Lisport

www.testingservices-usa.com • (706)226-1400

office@testingservices-usa.com

CLIENT:

Company:	Artificial Grass Liquidators	
Address: PO Box 1627		
	Temecula, CA 92593	
Requested By:	Dillon Georgian	

TEST MATERIAL:

Date Material Received:	April 14, 2020
Material Type: Synthetic Turf	
Material Condition:	Excellent, New
Material ID:	Pro 92
Infill:	16 Grit Sand, to ¾" exposed tuft

TESTING METHODS REQUESTED:

Testing Services, Inc was instructed by the client to perform the following testing:				
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)	

SAMPLING PLAN:

Sampling	Date:	4/14/2020
	Snecimen samnl	ing is performed in the sampling dena

- specimen sampling is performed in the sampling department at TSI.
- The sampling size of specimens is determined by the test method requirements.
- In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.
- All samples are subjected to the outside environmental conditions of temperature and relative humidly.
- Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested

TEST EQUIPMENT:

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

PRINCIPLE:

This procedure simulates high levels of athletic use of the 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, Artificial Grass Liquidators, 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 activated for 1,000 cycles. At the end of the 1,000 cycles the pile fiber degradation was graded, a photo and fiber sample were taken.

DEVIATION FROM TEST METHOD:

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

Page 1 of 2

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.



LABORATORY TEST REPORT

 Report #
 80995G

 Test Number:
 3192-3343

 Report Date:
 August 18, 2020

FIFA Section 17, EN 15336 Simulated Abrasion, Lisport

www.testingservices-usa.com • (706)226-1400

office@testingservices-usa.com

CLIENT:			
Company:	ny: Artificial Grass Liquidators		
Address:	PO Box 1627		
	Temecula, CA 92593		
Requested By:	Dillon Georgian		

TEST MATERIAL:	
Date Material Received:	April 14, 2020
Material Type:	Synthetic Turf
Material Condition:	Excellent, New
Material ID:	Pro 92
Infill:	16 Grit Sand, to 3/4" exposed tuft
Measured Tuft Height:	51mm
Average Infill Depth:	32mm
Exposed Tuft Above Infill:	19mm

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 1,000 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	Tuft Loss	Pile Flattening	Fiber Splitting
1,000	1.0	1.0	3.5	1.0

CONCLUSION:

Photographs of the overall view of the fibers are provided in the following appendixes.

Infill dispersion, tuft loss and fiber splitting was negligible for the entire test duration. Pile flattening was considerable.

APPENDIX A: Camera and Microscopic View of Fibers



Testing Services (TSI) LLC 817 Showalter Avenue PO Box 1343 Dalton, GA 30721

Page 2 of 2

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.