



CLIENT:

Company:	ForeverLawn, Inc
Address:	4449 Easton Way
	Columbus, OH 43219

TEST MATERIAL:

Date Material Received:	September 12, 2022
Material Type:	Synthetic Turf
Material Condition:	Excellent, New
Turf Identification:	K9 Grass Elite (FK9N2)
Infill System:	N/A

TESTING 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 D1335	Test Method:	Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings (Tuft Lock)
Standard:	ASTM D5823	Test Method:	Standard Test Method for Tuft Height of Pile Yarn Floorcoverings (Pile Height)
Standard:	ASTM D5034	Test Method:	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
Standard:	ASTM F1551	Test Method:	Standard Test Method for Comprehensive Characterization of Synthetic Turf Placing Surfaces and Materials, Suffix DIN 18-035, Part 6: Water Permeability of Synthetic Turf Systems and Permeable Bases (Water Permeability)
Standard	ASTMD5793	Test Method:	Standard Test Method for Binding Sites Per Unit Length or Width of Pile Yarn Floorcoverings (Stitch and Gauge)

SAMPLING PLAN:

Sampling Date:	9/12/22
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions From Test Methods
None

TEST SCOPE:

Testing Services was instructed by the client to perform construction and performance analysis on 1 submitted finished synthetic turf roll identified as: K9Grass Elite (FK9N2) in accordance with ASTM, EN, FIFA, or other accredited test methods outlined in the project specification.

PERFORMANCE ANALYSIS

TEST METHOD	TEST DESCRIPTION	Test Result
ASTM F1551	Water Permeability	3,048 inches per hour

CONSTRUCTION ANALYSIS

TEST METHOD	TEST DESCRIPTION	TEST RESULTS Lab # 2183
ASTM D5848-20	Total Product Weight	67.73 oz/yd <sup>2</sup>
ASTM D5848-20	Pile Yarn Weight	58.00 oz/yd <sup>2</sup>
ASTM D5848-20	Primary Backing Weight	5.00 oz/yd <sup>2</sup>
ASTM D5848-20	Secondary Backing Weight	4.73 oz/yd <sup>2</sup>
ASTM D5823-19	Average Pile Height	0.875"
ASTM D5793-18	Stitch Count / Gauge	Knitted
ASTM D1335-21	Average Tuft Bind Strength	13.3 lbs/force
ASTM D5034-21	Average Grab Tear (Length)	307 lbs/force
ASTM D5034-21	Average Grab Tear (Width)	241 lbs/force

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available. TSI can only ensure the test results for the specific items tested. Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

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

TSI Accreditation:

Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology; ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0. TSI is an Organizational Member of ASTM (American Society for Testing and Materials). TSI is a certified independent testing laboratory by the STC (Synthetic Turf Council).



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