

TEST REPORT

CLIENT:

Company:	Turf and Ivy Solutions	Report Number:	79421
Address:	5 Centerpointe Dr. Ste 400, Lake Oswego, Oregon 97035	Lab Test Number:	3169-2420
		Test Completion Date:	1/16/2020
		Report Date:	1/18/2020
Requested by:	Patricia Ochoa	Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf				Date Received:	1/13/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:		REJECTED:
Product ID:	Harmony						

TESTING METHODS REQUESTED:

<i>Testing Services Inc. was instructed by the client to test for the following...</i>	
Standard:	ASTM D1335
Test Method:	Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings

SAMPLING PLAN:

Sampling Date:	1/13/2020
<ul style="list-style-type: none"> • 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 humidity. • 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 	

DEVIATION FROM TEST METHOD:

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

TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT
ASTM D1335-17e1	Average Tuft Bind Strength	17.4 lbs/force

➤ Each individual pull was made from a combination of monofilament and textured fibers, same needle site

Pull #1	18.66 lbs/force	Pull #2	19.95 lbs/force	Pull #3	18.50 lbs/force	Pull #4	19.01 lbs/force	Pull #5	18.09 lbs/force
Pull #6	19.76 lbs/force	Pull #7	17.56 lbs/force	Pull #8	14.63 lbs/force	Pull #9	16.67 lbs/force	Pull #10	17.37 lbs/force
Pull #11	14.95 lbs/force	Pull #12	15.89 lbs/force	Pull #13	14.71 lbs/force	Pull #14	19.36 lbs/force	Pull #15	16.11 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 a certified independent testing laboratory by the Synthetic Turf Council

