



Test Summary

Company:	Shaw Sports Turf	Report Number:	72418
Address:	616 E. Walnut Ave	Lab Test Number:	2963-4697, 2963-4390--4391
	Dalton, GA 30720	Test Completion Date:	11/10/2017 Turf, 11/2/2017 Yarn
		Report Date:	11/30/2017
Requested By:	Drew McDowell		

TEST MATERIAL:

Material Type:	Synthetic Turf	Dates Received:	11/10/2017 Turf, 10/9/2017 Yarn
Material Condition:	EXCELLENT: XXX GOOD: POOR: REJECTED:		
Style:	Legion Pro 2.0		
Roll #:	TT01TP5		

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following...			
Standard:	ASTM D1907	Test Method:	Standard Test Method for Liner Density of Yarn by the Skein Method
Standard:	ASTM D3218	Test Method:	Standard Test Method for Specification of Polyolefin Monofilaments
Standard:	ASTM D2256	Test Method:	Standard Test Method for Tensile Properties of Yarns by the Single Strand Method
Standard:	ASTM D5848	Test Method:	Standard Test Method for Mass Per Unit Area of Pile Yarn Floorcoverings
Standard:	ASTM D5823	Test Method:	Standard Test Method for Tuft Height of Pile Yarn Floorcoverings
Standard:	ASTM D1335	Test Method:	Standard Test Method for Tuft Bind of Pile Yarn Floorcoverings
Standard:	ASTM D5034	Test Method:	Standard Test Method for Breaking Strength of Textile Fabrics (Grab)
Standard:	ASTM D5793	Test Method:	Standard Test Method for Binding Sites per Unit Length or Width of Pile Yarn Floorcoverings
Standard:	ASTM D2859	Test Method:	Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings
Standard:	ASTM D3385	Test Method:	Standard Test Method for Infiltration Rates of Soils in Field Using Double Ring Infiltrometer
Standard:	ASTM F355	Test Method:	Standard Test Method for Impact Attenuation of Playing Surface Systems and Materials

SAMPLING PLAN:

- 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

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TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT - SLIT FILM
Yarn Testing	ASTM D1907 Yarn Denier	5,026
	ASTM D3218 Filament Thickness	0.0040" / 103 microns
	ASTM D2256 Yarn Breaking Strength / Elongation	16.22 lbs/force 37.60%

TEST METHOD	TEST DESCRIPTION	TEST RESULT - MONOFILAMENT
Yarn Testing	ASTM D1907 Yarn Denier	11,089
	ASTM D3218 Filament Thickness	0.0127" / 323 microns (x6)
	ASTM D2256 Yarn Breaking Strength / Elongation	16.48 lbs/force 72.40%

TEST METHOD	TEST DESCRIPTION	TEST RESULT
Product Testing	ASTM D5848 Total Product Weight	74.65 oz/yd2
	ASTM D5848 Pile Yarn Weight	46.05 oz/yd2
	ASTM D5848 Primary Backing Weight	7.92 oz/yd2
	ASTM D5848 Secondary Backing Weight	20.68 oz/yd2
	ASTM D5823 Average Pile Height	2.0"
	ASTM D1335 Average Tuft Bind Strength	18.6 lbs/force
	ASTM D5034 Avg Grab Tear Strength of L & W Direction	330.8 lbs/force
	ASTM D5793 Stitch Count / Gauge	2.33 stitches per 1" 1/2"

TEST METHOD	TEST DESCRIPTION	TEST RESULT
Performance Testing	ASTM D2859 Pill Flammability	8 out of 8 passes
	ASTM F355a Gmax	108
	ASTM D3385 Infiltrometer Drainage Rate	67 inches/hour

➤ Infill System: 3.2 lbs/ft² Rubber Mixed with 1.4 lbs/ft² Sand

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information 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 performed are in compliance with stated test method.

Test Report Approval:

Erle Miles, Jr. VP, Testing Services Inc

TSI Accreditation: Our code # is: NVLAP 100108-0. TSI is a certified independent testing laboratory by the Synthetic Turf Council
Our laboratory is ISO9001: 2008 Technical Testing of Textiles accredited.



Synthetic Turf
COUNCIL

