

**CLIENT:**

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

**TEST MATERIAL:**

<b>Date Material Received:</b>	April 14, 2020
<b>Material Type:</b>	Synthetic Turf
<b>Material Condition:</b>	Excellent, New
<b>Material ID:</b>	Pro 84

**TESTING METHODS REQUESTED:**

Testing Services Inc. was instructed by the client to test for the following...		
<b>Standard:</b>	ASTM D5848	<b>Test Method:</b> Standard Test Method for Mass per Unit Area of Pile Yarn Floorcoverings
<b>Standard:</b>	ASTM D1335	<b>Test Method:</b> Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings
<b>Standard:</b>	ASTM F2765	<b>Test Method:</b> Standard Specification for Total Lead Content in Synthetic Turf Fibers
<b>Standard:</b>	ASTM D2859	<b>Test Method:</b> Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings
<b>Standard:</b>	ASTM F1551	<b>Test Method:</b> Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials: Suffix-DIN 18-035, Part 6: Water Permeability of Synthetic Turf Systems and Permeable Bases
<b>Standard:</b>	ASTM G154	<b>Test Method:</b> Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Non-Metallic Material

**SAMPLING PLAN:**

<b>Sampling Date:</b>	4/14/2020
<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 METHODS:**

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

**TEST SUMMARY:**

Test Method	Test Description	Test Results	
ASTM D5848-20	Total Product Weight	109.22 oz/yd <sup>2</sup>	
ASTM D5848-20	Pile Yarn Weight	79.84 oz/yd <sup>2</sup>	
ASTM D1335-17e1	Average Tuft Bind Strength	11.5 lbs/force	
ASTM F2765-14	Total Lead Content – Fibers only	<0.5 mg/Kg	
<sup>1</sup> ASTM D2859-16	<sup>1</sup> Pill Flammability	8 out of 8 Pass	Meets 16CFR 1630 (FF1-70)
<sup>1</sup> ASTM F1551-09; Suffix 30	Water Permeability	41.4 inches/hour	
<sup>2</sup> ASTM G154-16	QUV Accelerated Weathering – 2000 hours – Fibers only	Color: 10	Texture: 10

<sup>1</sup>Performance testing completed with 16 grit sand supplied by the client, to ¾" exposed tuft


<sup>2</sup>Ratings per guidelines provided by Q Labs; Ratings are on a grade scale of 1 – 10; 10 = Negligible or No Effect

**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:**

 Digitally signed by Erle Miles  
 DN: cn=Erle Miles, o=Testing Services, Inc.  
 email=erle@testing-services-usa.com, c=US  
 Date: 2020.08.07 14:57:24 -0400

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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