



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:	Cloud Nine

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
Standard:	ASTM D1335	Test Method:	Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings
Standard:	ASTM F2765	Test Method:	Standard Specification for Total Lead Content in Synthetic Turf Fibers
Standard:	ASTM D2859	Test Method:	Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings
Standard:	ASTM F1551	Test Method:	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
Standard:	ASTM G154	Test Method:	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Non-Metallic Material

SAMPLING PLAN:

Sampling Date:	4/14/2020
<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 METHODS:

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

TEST SUMMARY:

Test Method	Test Description	Test Results	
ASTM D5848-20	Total Product Weight	105.76 oz/yd ²	
ASTM D5848-20	Pile Yarn Weight	75.35 oz/yd ²	
ASTM D1335-17e1	Average Tuft Bind Strength	10.5 lbs/force	
ASTM F2765-14	Total Lead Content – Fibers only	<0.5 mg/Kg	
¹ ASTM D2859-16	¹ Pill Flammability	8 out of 8 Pass	Meets 16CFR 1630 (FF1-70)
¹ ASTM F1551-09; Suffix 30	Water Permeability	187.9 inches/hour	
² ASTM G154-16	QUV Accelerated Weathering – 2000 hours – Fibers only	Color: 10	Texture: 10

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


²Ratings 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: 2020.08.14 14:02:01 -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).



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