

Product Specification Sheet

Coastal Plush

USES:

Landscape

Lawns

Playgrounds

Traffic Medians

Pet Areas

Commercial or Residential

Light-Heavy Traffic

SPECIFICATIONS:

Pile Height: 2"

Turf Gauge: 3/8"

Face Weight: 94 oz./yd²

Backing Weight: 38 oz./yd²

Total Weight: 132 oz./yd²

Stitch Rate: 16/10cm Stitches/m2: 16800

Material/Dtex: PE 13000 + PP5000

Color: 2/3 Field Green and Lime Green

with Brown and Green Thatching

Type Of Fiber: PE Monofilament and PP

Curled As Thatch

Report Date: June 6, 2012 Work Order: 12060430 Page Number: 1 of 1

Summary Report

Watersavesrs Turf 4316 Redwood Hwy, Ste 100 San Rafael, CA 94903 Report Date: June 6, 2012

Work Order: 12060430

Project Location: U.S.A. Project Name: Turf Test

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
299845	Coastal Plush	turf	2012-05-30	00:00	2012-06-04

Sample: 299845 - Coastal Plush

Param	Flag	Result	Units	RL
Total Lead		< 1.00	m mg/Kg	1



Certificate of Analysis Summary 627493

Watersavers Turf, San Rafael, CA
Project Name: Turf Testing

TNI

Project Id: Turf Testing Series 9

Project Location: USA

Date Received in Lab: Tue Jun-11-19 04:00 pm

Report Date: 20-JUN-19
Project Manager: John Builes

Analysis Requested	Lab Id:	627493-001			
	Field Id:	Turf Series 9			
	Depth:				
	Matrix:	SOLID			
	Sampled:	Jun-07-19 00:00			
Total Lead	Extracted:	Jun-16-19 14:30			
SUB: T104704215-19-29	Analyzed:	Jun-17-19 22:52			
	Units/RL:	mg/kg RL			
Lead		<0.847 0.847			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

M

John Builes Project Manager



CERTIFICATE OF ANALYSIS

Client: Watersavers Turf Product: Coastal Plush Xenco Sample #: 627493

Lead Results: Less than one part per million

Synthetic fibers from turf product Coastal Plush, taken by Watersavers Turf 06-07-19, and received by Xenco Labs 06-11-19, were analyzed by Xenco Labs 06-17-19 for total lead by method ASTM G 2765-09 (EPA 6010). The results were less than one milligram lead per kilogram synthetic fiber (<1mg/KG).

Blan Latrurch	06/18/19
Dr. Blair Leftwich Director	Date



CLIENT:

Company:	Watersavers Turf.	Report Number:	79329
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3166-2330
	San Rafael, CA 94903	Test Completion Date:	1/10/2020
		Report Date:	1/10/2020
		Page.	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf			Date Rec	eived:	1/6/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:		REJECTED:	
Product ID:	Coastal Plush	oastal Plush						
Infill System:	1.0 lbs/ft ² 20/40 Silica	.0 lbs/ft² 20/40 Silica Sand					•	

TESTING METHODS REQUESTED:

TESTINO METHOD	ESTING METHODS REQUESTED.							
Testing Services Inc. was instructed by the client to test for the following								
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					

		Waterials. Sum Diff to 055, I art 0. We	ater i criffeability of Syrialette i	ari bystems und i emicable bases
SAMPLING PLAN:				
Sampling Date:	1/6/2020			

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 humidly.

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

PROCEDURE:

This test method determines the rainfall drainage capacity (permeability) of the playing surface. Test data values represent drainage rates vertically thru the turf with above listed infill, and do not take into account the percolation properties of a pad and/or an underlying sub base. Three specimens, 11.5" diameter, were cut from the 15' turf roll, side-center-side manner. Each turf specimen was securely fastened to the permeability tube using mechanical flanges, ensuring vertical water flow thru the product. The infill system was then installed. Water was pumped into the tube faster than could exit, until the water level reached 6". The water source was shut off, allowing the accumulated 6" water level to recede. The recede was timed via stopwatch until the water level exited the turf. The flow time was recorded in seconds. This procedure was repeated a total of 4 times where, the first pass was for conditioning, with passes 2,3,4 used for averaging. This process was repeated on the remaining specimens.

DEVIATION FROM TEST METHOD:

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

TEST SUMMARY:

Specimen #	Drainage (Seconds)	gal/min/yd²	Rainfall Capacity (inches/hour)
1	152.0	13.3	40.8
2	79.6	25.4	77.8
3	124.7	16.2	49.7
Average	118.8	18.3	56.1

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

TSi is a certified independent testing laboratory by the Synthetic Turf Council





CLIENT:

Company:	Watersavers Turf	Report Number:	79408
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2442
	San Rafael, CA 94903	Test Completion Date:	1/16/2020
		Report Date:	1/18/2020
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf				Date Received: 1/13/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR		REJECTED:	
Turf Identification:	Coastal Plush						
Infill:	None						

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following					
Standard:	ASTM D2859	Test Method:	Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings		

SAMPLING PLAN:

Sampling Date: 1/13/2020

- 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 manage
- All samples are subjected to the outside environmental conditions of temperature and relative humidly.
- 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. Specimens were not exposed to air circulating oven.

TEST SCOPE:

This test method provides a method of determining the flammability characteristics of textile products when exposed to an ignition source in a laboratory environment. Eight specimens were taken from the sample lot, 230mm X 230mm, and preconditioned in an air circulating oven @ 150°C for 2 hours. After removal from the oven, the specimens are placed into a desiccator for 1 hour prior to performing the test. Each specimen was then placed into the test chamber floor with the pile surface up and a steel frame, 230mm X 230mm with 200mm diameter hole, placed on top of the specimen. A methenamine tablet was placed centrically onto the pile surface. The pill was ignited using a lighted match, with the ignition flame and propagated flame allowed to self-extinguish.

CRITERIA:

The specimen passes, if the charred portion of the test specimen, did not extend to within 25mm (1") of the diameter hole of the steel frame. The U.S. Consumer Product Safety Commission requires that at least seven of the eight specimens pass the test for acceptance as meeting the standard.

TEST SUMMARY:

	TEST METHOD	TEST DESCRIPTION		TEST RESULT
I	ASTM D2859-16	Ignition Characteristics of Textile Floor Coverings (Pill Test)	8 out of 8 Pass	Passes, U.S. CPSC 16CFR 1630 (FF1-70), Carpets & Rugs

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 trie Miles
Div. crystic Miles, or Testing
Services Inc., ox,
emaitrisiofice@coptlinkus, cry
Date: 200001, 18 10312-0-070

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

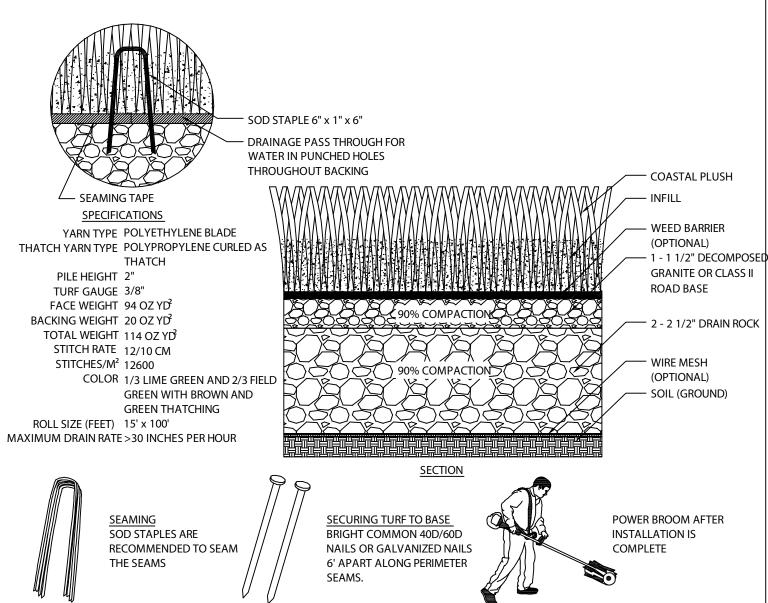




100108-0



WATERSAVERS TURF
4316 REDWOOD HWY, STE 100
SAN RAFAEL, CA 94903
1-844-974-8873



NOTES:

- 1. THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION. SEAMS SHOULD BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH, OR GST RECOMMENDED SEAMING TECHNIQUES.
- 2. COLOR: 1/3 LIME GREEN AND 2/3 FIELD GREEN WITH BROWN AND GREEN THATCHING.
- 3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 4. DO NOT SCALE DRAWING.
- 5. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
- 6. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- 7. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5006-040.





CLIENT:

Company:	Watersavers Turf	Report Number:	67971A
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2839-9489
	San Rafael, CA 94903	Test Completion Date:	7/18/2016
		Report Date:	7/20/2016
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf]	Date Received:	7/14/201	6
Material Condition:	EXCELLENT:	EXCELLENT: XXX GOOD: POOR:		POOR:		ECTED:		
Style:	Coastal Plush							

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

SAMPLING PLAN:

Sampling Date: 5/24/2016

- 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 humidly.
- 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 D5848-10e1	Total Product Weight	131.97 oz/yd²
ASTM D5848-10e1	Pile Yarn Weight	94.30 oz/yd²

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:

Digitally signed by Erle Miles
Date: 2016.07.21 09:33:58
04'00'

Erle Miles, Jr. VP, Testing Services Inc

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

Form:	Rev:	Revision Date:	Page 1 of 1	
Release Date:	Control Type: Electronic – Expires 24 hours after this date: Jul. 21, 16			
	Printed copies are uncontrolled			



CLIENT:

Company:	Watersavers Turf	Report Number:	79422
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2421
	San Rafael, CA 94903	Test Completion Date:	1/17/2020
		Report Date:	1/18/2020
		Page.	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf			Date Rec	eived:	1/13/2020		
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:		REJECTED:	
Product ID:	Coastal Plush							

TESTING METHODS REQUESTED:

TESTING METHO	DO REGULUTED.				
Testing Services Inc. was instructed by the client to test for the following					
Standard:	ASTM D1335	Test Method:	Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings		

SAMPLING PLAN:

Sampling Date: 1/13/2020

- 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 humidly.
- 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:

BETHTION TOWN 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	14.6 lbs/force	

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

Pull #1	9.632 lbs/force	Pull #2	17.68 lbs/force	Pull #3	16.05 lbs/force	Pull #4	16.30 lbs/force	Pull #5	9.525 lbs/force
Pull #6	18.83 lbs/force	Pull #7	16.75 lbs/force	Pull #8	14.69 lbs/force	Pull #9	12.80 lbs/force	Pull #10	12.92 lbs/force
Pull #11	16.77 lbs/force	Pull #12	18.81 lbs/force	Pull #13	11.84 lbs/force	Pull #14	11.58 lbs/force	Pull #15	14.56 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

TSi Accreditation

Sathie

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

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







CLIENT:

OLILITI.			
Company:	Watersavers Turf	Report Number:	79708
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2421
	San Rafael, CA 94903	Test Completion Date:	2/18/2020
		Report Date:	2/19/2020
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf			Date Rec	eived:	2/5/2020		
Material Condition:	EXCELLENT: XXX GOOD: P		POOR:		REJECTED:			
Product ID:	Coastal Plush							

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following				
Standard: ASTM D5034 Test Method:		Test Method:	Standard Test Method for Breaking Strength of Textile Fabrics (Grab)	

SAMPLING PLAN:

2/5/2020

- 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 humidly.

 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 D5034-09(2017)	Average Grab Tear Strength of Length Direction (MD)	261.3 lbs/force
ASTM D5034-09(2017)	Average Grab Tear Strength of Width Direction (CMD)	208.1 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.

TSi Accreditation:



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

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







Property

Product

Technical Data Sheet: Coastal Plush

Metric

Description

Imperial

Properties:	,	Unit	Unit	2 3333, 2 333
	Fiber Type			Polyethylene Monofilament and Polypropylene Curled as Thatch
	Fiber Mass	Denier 11700/4500 Monofilament	Detex 13000/5000 Monofilament	Polyethylene
	Pile Height	2.00 in	50.80 mm	
	Color(s)			Lime Green and Field Green With Brown and Green Thatching
	Tufting Gauge	.375 in	9.525 mm	
	Stitch Rate	16.256/4in	16/10cm	
	Stitches	20,092.633/yd ²	16,800/m ²	
	Primary Backing	5.899 oz/yd²	200.00 g/m ²	Polypropylene and Polyester fiber
	Secondary Backing	31.771 oz/yd²±5%	1,077.271 g/m ² ±5%	Urethane
	Total Backing Weight	37.67 oz/yd²±1.5oz	1,277.271 g/m ² ±50g	
	Micron	240		
Performance	Property	Imperial	Metric	Test Method
Properties:		Unit	Unit	
	Face Weight	94.30 oz/yd²	3,197.417 g/m ²	ASTM D5848-10e1
	Total Weight	131.97 oz/yd²	4,474.688 g/m ²	ASTM D5848-10e1
	Permeability	56.1 in/ft²/hr	1,533.843 cm/m²/hr	ASTM F1551; Suffix-DIN 18-035, Part 6
	Melting Point	176 °F for Blades (greens and brown) 250 °F for Thatch (brown and curled)	80°C for Blades (greens and brown) 121°C for Thatch (brown and green curled)	
	Tuft Bind	14.6 lb-f	64.944 N	ASTM-D1335-17e1
	Grab Tear MD	261.3 lb-f	1,162.320 N	ASTM-D5034-05
	Grab Tear CMD	208.1 lb-f	925.675 N	ASTM-D5034-05
	Infill Amount (recommended)	¾ of the Pile Height		
Packaging:	Property	Imperial Unit	Metric Unit	Description
	Model Number			Coastal Plush
	Roll Width	15 ft	4.57 m	
	Roll Length	100 ft	30.48 m	
	Area per Roll	1,500 ft ²	139.355 m ²	
	Total Roll Weight	1,062 lbs	481.715 kg	