TESTING SERVICES, INC.
817 SHOWALTER AVE. • P.O. BOX 2041
DALTON, GEORGIA 30722-2041
PHONE: (706) 226-1400 • FAX: (706) 226-6118

Blue Sky Turf International Testing Summary

CLIENT:	Blue Sky Turf International	REPORT NUMBER:	47183
	534 Brighton Way	LAB TEST NUMBER:	2126-1460
	Valley Forge, PA 19460	DATE:	February 25, 2010
		PAGE:	1 of 2

TEST MATERIAL:

Turf ID
UltraFiber G4 M

OVERVIEW: A synthetic turf sample was submitted for a battery of testing to analyze construction and physical properties.

TEST METHOD(S): *ASTM F1551: Standard Test Method for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials*

- ASTM D5848: *Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Coverings (Construction Analysis)*
- ASTM D5823: *Standard Test Method for Tuft Height of Pile Floor Coverings*
- ASTM D1335: *Standard Test Method for Tuft Bind of Pile Floor Coverings*
- ASTM D5034*: Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Tear)*
- ASTM D5793: *Standard Test Method for Binding Sites Per Unit Length or Width of Pile Yarn Floor Coverings*
- ASTM D2859: *Standard Test Method for Flammability of Finished Textile Floor Coverings Materials as directed in Federal Document DOC FF 1-70*
- ASTM F1015: Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
- ASTM F1551: *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*
- ASTM F1551: *Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials, Suffix AT-030: Sports Shoe Traction (Coefficient of Friction) and Traction Differential*
- ASTM F355-*01: Standard Test Methods for Shock-Absorbing Properties of Playing Surface Systems and Materials (Procedure A)*
- ASTM D1907: *Standard Test Method for Linear Density of Yarn by the Skein Method*
- ASTM D7138: *Standard Test Method for Determination of Melting Temperatures of Synthetic Fibers, Method 2*
- ASTM G154-*06: Standard Practice for Operating Fluorescent light Apparatus for UV Exposure of Non-Metallic Material*

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Test Performed		Test Result	
Total Weight		67.70 oz/yd²	
Pile Weight		40.37 oz/yd²	
Average Pile Height		2.22”	
Average Tuft Bind Strength		7.79 lbs/force	
Average Breaking Strength		MD: 311.6 lbs/force	CMD: 241.9 lbs/force
Stitches Per Inch	Gauge	3.0 spi	3/8” Gauge
[1]Pill Flammability		Passes	
[1]Abrasive Index		29±2	
[1]Water Permeability		Average Rainfall Capacity: 266.0 inches/hour	
[1]Football Shoe Traction (Dry)		Static COF: 1.60	Dynamic COF: 1.00
[1]Football Shoe Traction (Wet)		Static COF: 1.40	Dynamic COF: 0.90
[1]Soccer Shoe Traction (Dry)		Static COF: 1.50	Dynamic COF: 0.90
[1]Soccer Shoe Traction (Wet)		Static COF: 1.40	Dynamic COF: 0.90
[2]Average Gmax		82	
Average Ribbon Linear Density		8,181	
Ribbon Melt Point		119°C Polyethylene	
100 hours QUV Exposure		Overall Rating: 8 (Very Good)	

[1] Infill System: 3.0 lbs/ft² SBR Rubber
[2] Infill System: 3.0 lbs/ft² SBR Rubber Subbase: 3” Crushed Rock

Approved By:

Digitally signed by Erle Miles, Jr.
DN: cn=Erle Miles, Jr.,
email=tsioffice@alltel.net,
o=Testing Services Inc.,
ou=Testing Services Inc., c=US
Date: 2010.03.10 10:16:25 -05'00'

Erle Miles, Jr. VP
Testing Services Inc.

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