

Laboratory Analysis Report UNE 147301: 2018 PADEL TENNIS

Padel TXT Solution

Report Number: 12181/5468

Report Status: Final

Client: Safitex

Via Opifici, 50

24024 Gandino BG, Italy



















HEADQUARTERS

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REGIONAL LOCATIONS

- England
- Italy
- Morocco Netherlands
- Norway
- · South Africa Turkey
- United States









Registered in Scotland. SC 186755

Foreword

This report has been prepared by Sports Labs Ltd with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.

This report is confidential to the Client, and Sports Labs Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

* Not all tests carried out are within our scope of ISO 17025 accreditation.

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09/03/2023

This report is not an official National Governing Body report and does not imply NGB approval.

Declaration of Conformity

Report Written By:

Date:

Signed:

Country:

Email:

Telephone:

We confirm that the tests described in this report have been carried out in accordance with *UNE 147301: 2018* Superficies Deportivas de Hierba Artificial Para la Práctica del Pádel, and this report accurately reflects the outcome of the tests conducted.

Date:

Signed:

Report Checked By:

Sean Ramsay

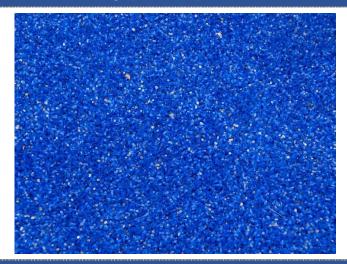
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<i>C.</i>	Mehose Same					
Test Laboratory						
Test Laboratory Name:	Sports Labs Ltd					
Address:	1 Adam Square, Brucefield Industry Park					
City & Postal (ZIP) Code:	Livingston, EH54 9DE					
State or Province:	West Lothian					
Country:	Scotland, UK					
Telephone:	+44(0)1506 444 755					
Email:	info@sportslabs.co.uk					
Client						
Client's Name:	Safitex					
Address:	Via Opifici, 50					
City & Postal (ZIP) Code:	24024 Gandino BG					
State or Province:	Bergamo					

Product Description					
Product Name:	Padel TXT Solution				
Stabilising Infill:	Silica Sand	8 kg/m2 (approx. 6mm)			
Shockpad:	N/A	-			
Substrate:	Rigid Engineered Base				
Number of Conditioning Rolls:	N/A				
Free Pile Height:	6mm				

Surface Profile Image [Plan View]:



Surface Profile Image [End Elevation]:



Sample Reference			
Laboratory Job No.		12181/5468	Date Received
Sample Reference No.	Synthetic Turf	5456 8437	02/02/2022 16/02/2023
	Stabilising Infill	Stock Sand	-
	Shockpad	-	-
Test Laboratories are required to store a reference sample		le l	

Test Laboratories are required to store a reference sample of the tested product for a defined period. By checking the box opposite, we confirm that a 200x200mm sample has been placed in storage and will be retained as necessary.

A sample of the tested product has been placed in storage and shall be retained as necessary.

Performance Results Summary						
Property	Test Method	Test Condition	Mean Result	Requirement	Pass/ Fail	
Ball Rebound – Padel Tennis Ball	EN 12235: 2013	DRY	83 %	- ≥ 80 %	PASS	
		WET	81 %			
Force Reduction		DRY	20 % (SA1)	Type SA1 15 - 24 %	PASS	
	EN 14808: 2005	WET	22 % (SA1)	Type SA2 25 – 34 %		
Rotational Resistance - Dimpled	EN 15301–1: 2007	DRY	36 Nm	25 – 50 Nm	D.A.C.C.	
		WET	29 Nm		PASS	
		Filled Turf	902 mm/h			
Water Permeability	EN 12616: 2013	Synthetic Turf only	1109 mm/h	≥ 500 mm/hr	PASS	
Wear Resistance	EN 13672: 2004*	Synthetic Turf only	0.2 %	< 2 % loss after 2000 cycles	PASS	

^{(*} note: these tests are outwith our scope of ISO 17025 Accreditation)

Synthetic Turf - Identification						
Test method		Manufacturer's Declaration	Mean Result	Variation	Requirement	Pass/Fail
Carpet Mass	ISO 8543: 1998	2833 g/m2	2677 g/m2	- 5.5 %	≤± 10 %	
No. of Tufts	ISO 1763: 1986	58000 /m2	60140 /m2	+ 3.7 %	≤± 10 %	
Gauge	ICO 1763, 1006	3/16"	3/16"	Same	≤± 10 %	
Stitch Rate	- ISO 1763: 1986	276 /m	278 /m	+ 0.7 %	≤± 10 %	
Pile Length	ISO 2549: 1972	12 mm	12 mm	0 %	≤± 5 %	PASS
Pile Weight	ISO 8543: 1998	1660 g/m2	1520 g/m2	- 8.4 %	≤± 10 %	
Pile Dtex	* EN 15330-1: 2013 - Section 4.8 Table 3 (Note b)	8640	8150	- 5.7 %	≤± 10 %	

^{(*} note: these tests are outwith our scope of ISO 17025 Accreditation)

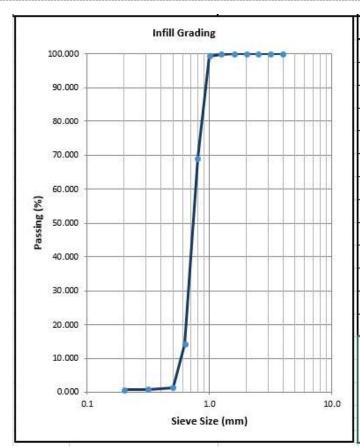
Synthetic Turf – Material Tests						
Test method		Test Condition	Mean Result	Requirement	Pass/Fail	
	ISO 4919: 2012	Un-aged	33 N	≥ 30 N		
Tuft Withdrawal	ISO 4919: 2012 & * EN 13744: 2004	14 Days Water Aged	30 N	≥ 30 N & ≥ 75 % of unaged		
Carpet Tensile	* EN 13934–1:		Warp 33 N/mm	≥ 15 N/mm and		
Strength	2013	Un-aged Weft 26 N/mm		≤ 30% difference		
Seam Strength	EN 12228: 2013	Un-aged	197 N/100mm ⁽¹⁾	≥ 60 N/100mm		
– Peel (Method 2)	EN 12228: 2013 & * EN 13744: 2004	14 Days Water Aged	146 N/100mm ⁽¹⁾	≥ 60 N/100mm & ≥ 75 % of unaged	PASS	
Seam Strength	EN 12228: 2013	Un-aged 2065 N/100mm ⁽¹⁾		≥ 1000 N/100mm		
- Direct Tension (Method 1)	EN 12228: 2013 & * EN 13744: 2004	14 Days Water Aged	1886 N/100mm ⁽¹⁾	≥ 1000 N/100mm & ≥ 75 % of unaged		
Wear Resistance	EN 13672: 2004*	2000 cycles	0.2 %	< 2 % loss after 2000 cycles		

(* note: these tests are outwith our scope of ISO 17025 Accreditation)

⁽¹⁾ Joint Strength results extracted from Labosport IT test report 21-05055IT-B.

Stabilising Infill - Identification Stabilising Infill Name Silica Sand Stabilising Infill Type Clean, dried Sand

Stabilising Infill – Material Tests



4.000 3.150 2.500 2.000 1.600 1.250 1.000	100.0 100.0 100.0 100.0 100.0
2.500 2.000 1.600 1.250 1.000	100.0 100.0 100.0 100.0
2.000 1.600 1.250 1.000	100.0 100.0 100.0
1.600 1.250 1.000	100.0 100.0
1.250 1.000	100.0
1.000	TO STATE OF
0.000	99.5
0.800	69.1
0.630	14.1
0.500	1.3
0.315	0.8
0.200	0.7
assing to base tray	0.6

Property	Test Method	Manufacturer's Declaration	Mean Result	Requirement	Pass/ Fail
Particle Size	EN 933-1: 2012	0.5 – 1.0 mm	0.5 – 1.0 mm	Between 60 and 100% d and D	DACC
Particle Shape	EN 14955: 2005	Rounded	C2	Similar Shape	PASS
Loose Bulk Density	EN 1097-3: 1998	1.50 kg/m3	1.491 kg/m3	≤± 15 %	

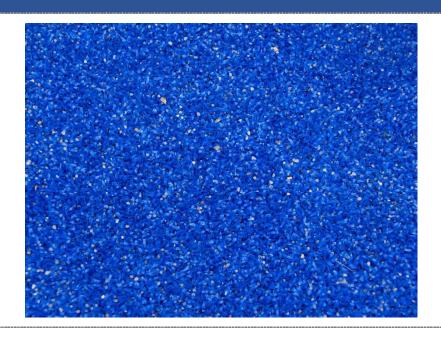
Conclusion

The product submitted was tested in accordance with the methods and requirements outlined in UNE 147301: 2018. We confirm all information presented within this report is accurate and appropriately reflects the performance of the samples submitted. Based upon the test results we consider the product supplied to have:

Met all requirements of UNE 147301: 2018 for artificial grass surfaces for Padel Tennis

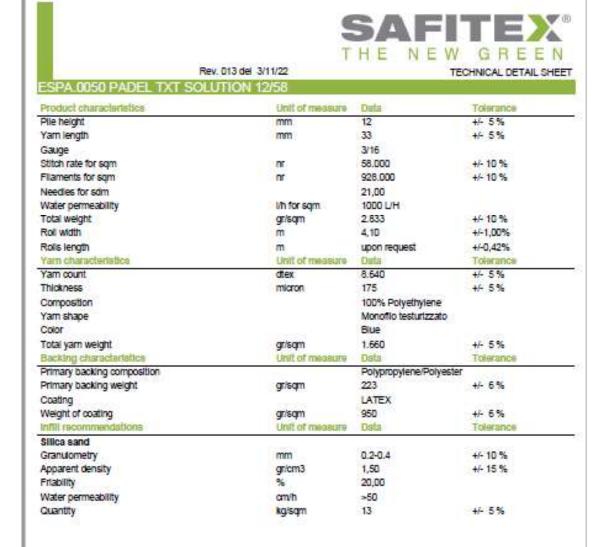
Failed to meet some requirements of UNE 147301: 2018 for artificial grass surfaces for Padel Tennis

Sample Pictures





Manufacturer's Declaration



Selflex Turf of reserves the right to modify the characteristics of the product at any time.

The quantities of infit can very according to the different types and characteristics of the materials used.

It is advisable to carry out preliminary tests.

Our technical office is available for any clarification.

Saftex Turf S.r.I.

Via Ugo Foscolo 33, 24024 Gandino (BG), Italia T: +39 035 731550 - F: +39 035 734982

M: Info@saftex.it

Test methods: ISO 8543, ISO 1763, ISO 2549 Emesso dal D.T.

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(* note: these tests are outwith our scope of ISO 17025 Accreditation)

Appendix A – Test Method, E	quipment and Uncertainty Val	ue Summary		
Test M	ethod	SL Equipment Number	Uncertainty Value	
Ball Rebound	EN 12235: 2013	SL113, SL198, SL282, SL481	(k=2.52) ± 2.21 %	
Shock Absorption	EN 14808: 2005	SL121, SL281, SL053	(k=2.24) ± 2.13 %	
Rotational Resistance	EN 15301-1: 2007	SL098, SL194, SL224	(k=2.11) ± 2.89 Nm	
Water Permeability	EN 12616: 2013	SL023, SL071, SL215	(k=2.37) ± 14.3 %	
Mass per unit area	ISO 8543: 2020	SL093	± 8.9 g/m²	
Tufts per unit area	ISO 1763: 2020	SL049	± 11.8 /m²	
Gauge and stitch rate	ISO 1763: 2020	SL049	± 11.8 /m²	
Pile length above backing	ISO 2549: 1972	SL049	± 0.76 mm	
Pile Weight	ISO 8543: 2020	SL093	± 8.4 g/m²	
Pile Dtex	* EN 15330-1: 2013 Section 4.8 Table 3 (Note b)	SL049, SL093	± 2.23 dtex	
Tuft Withdrawal	ISO 4919: 2012 & * EN 13744: 2004	SL178	± 5.1 %	
* Colour (Tufted yarn)	* Visual (RAL)	SL204	-	
* Polymer Characterisation	* ISO 11357-3: 2013	SL599	± 0.17 °C	
Particle Size	EN 933-1: 2012	SL160-169	-	
Particle Shape	EN 14955: 2005	Visual, SL020	-	
Loose Bulk Density	EN 1097-3: 1998	SL020, SL227	(k=2.86) ± 0.004 Mg/m ³	
Thickness	EN 1969: 2000	SL290	(k=2.00) ± 0.14 mm	
Shockpad Tensile	EN 12230: 2003	SL178, SL084, SL479	(k=2.87) ± 0.03 MPa	
Joint Strength	EN 12228: 2013 & * EN 13744: 2004	SL178, SL177	(k=2.32) ± 7.05 N	
* Carpet Tensile Strength	* EN 13934–1: 2013	SL178	-	
* Yarn Tensile Strength	* EN 13864: 2004	SL178	-	
* Resistance to Artificial Weathering	* EN 14836: 2018 & * EN 13864: 2004	SL178, SL085, SL214, SL200, SL439	-	
* Colour Fastness (Grey-scale)	* EN 20105–A02 & * EN 14836: 2018	SL085, SL214, SL200, SL439	-	

END OF REPORT

