

REPORT

SYNTHETIC SURFACE PRODUCT TEST

This form must be sent to: technicalofficer@worldathletics.org

Sample delivery address: World Athletics, Technical Manager, 6-8 Av. de la Quarantaine, 98000 MONACO

To obtain a World Athletics Product Certificate for a synthetic surface product, the material must have been proven to conform to the Track and Runway Synthetic Surface Testing Specifications. The testing must be undertaken by an Accredited Laboratory for Synthetic Surface Testing using equipment and testing procedures in accordance with the said Specifications and the results of the testing must be recorded on this pro-forma.

Four sample pieces of the product, each at least 0.5m × 0.5m, should be supplied to the laboratory by the manufacturer. (One sample for testing and three samples for retention by the laboratory under the direct control of World Athletics.)

SYNTHETIC SURFACE PRODUCT							
Product Trade Name	PFS LIAH	PFS LIAH SW RT					
Name of Manufacturer	Polska Fa	bryka Sportów Sp.Z.o.o					
Address	Polska Fa	bryka Sportów Sp.Z.o.o U	II. Domki 31	1-519, Krako	ow, Poland		
City	Krakow		Postal (ZI	P) code	31-519		
Country	Poland		State / Pro	ovince	Krakow		
Email	export@p	fs-eu.pl	Telephone	е	+48 793242831		
Basic Description							
☐ Full Polyurethane		☐ Spray-coat System		☐ Other:			
⊠ Sandwich System		☐ Prefabricated	Absolute Th		hickness: 15mm		
Porous							
Material Supplier(s)	BYK,EVO	BYK,EVONIK,GRACE					
Surface Composition					Approx. Thickness		
Top Layer / Texture:	RED EPD	2.5mm					
Middle Layer(s):	RED POL	RED POLYURATHENE SELF LEVELING/POREFILLER 2					
Bottom Layer:	RESIN BO	RESIN BOUND,SBR GRANULES 12mm					

TESTING			
Testing Laboratory:	Labosport Ltd		
Tester(s)' Name(s):	Phoebe Penty and Scott Parkin		
Test Report Number:	25-0046-A1	Date of Test	26/03/2025



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A. Laboratory Testing

1. Difference between Overall Thickness and Absolute Thickness (in mm to 0.1mm)

Thickness	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Average
Overall	16.4	15.7	17.8	16.2	17.2	16.7	16.7
Absolute	15.1	14.5	15.3	14.9	15.3	15.1	15.0
Difference	1.3	1.2	2.5	1.3	1.9	1.6	1.6

^{*}A minimum of four thickness measures shall be taken.

2. Testing at Standard Laboratory Temperature^Ø

Recorded Test Drop No.*	Thickness (absolute) mm (to 0.1)	Sample Temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
1	15.0	22.6	37	1.6
2	15.0	22.6	38	1.7
3	15.0	22.6	36	1.7
Averages	15.0	22.6	37	1.7

Ø Additional testing at other locations on the sample may be undertaken and recorded.

Do any of the individual Shock Absorption and/or Vertical Deformation results fall outside the allowable ranges of 35% to 50% and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?

☐ YES 🗵 NO

^{*}The average result is determined from two recorded results for FR and three recorded results for VD in accordance with the Test Protocols



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3. The Effect of Temperature on Shock Absorption and Vertical Deformation

Thickness (absolute) mm (to 0.1)	Intended sample temperature °C	Actual Sample temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
15.0	0	0.5	33	1.4
15.0	10	10.2	36	1.6
15.0	20	19.7	37	1.7
15.0	23	22.6	37	1.7
15.0	30	30.4	38	1.9
15.0	40	39.9	39	2.0
15.0	50	49.8	39	2.2

^{*}The thickness should be the same for all temperatures. The absolute thickness recorded for the Product in the Certificate will be the thickness tested at 23°C or, if the thickness was not the same for all temperatures, it will be the greatest thickness tested.

Do any of the individual Shock Absorption and/or Vertical Deformation results in the temperature range 10°C to 40°C fall outside the allowable ranges of 35% to 50%, and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?



If the answer is YES, then the manufacturer should be advised so that they can make the necessary arrangements to ensure that their surface will not fail an in-situ test because of temperature effects on the properties.

4. Friction (Coefficient of Friction or TRRL Scale reading)

Test Number	Friction Reading
1	65
2	66
3	66
4	66
5	67
Average	66

^{*}Average of five readings for the TRRL Pendulum or the average of three readings for the Sliding Resistance Tester.

Are any of the individual friction readings less than TRRL Scale reading of 47 or coefficient of Friction 0.5? (If so, highlight the readings in BOLD.)

YES

⋈ NO



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5. Tensile Tests

			Specimen No*				
Property	Unit		2	3	4	5	Average
Tensile Strength	MPa mm (to 0.01)	0.68	0.47	0.54	0.61	0.45	0.55
Elongation	% (whole)	53	43	45	46	46	47

Elongation	% (whole)	53	43	45	46	46	47
*A minimum o	f four specime	ens shall be te	sted.				
Is the average and 0.4MPa fo					less than 0.5	MPa for non-	porous surfaces
☐ YES	⊠ NO						
B. Atta	chments						
A reference Athletics.	ce sample of	10cm × 10cm	n of the mate	erial tested is	s to be supp	lied with the	report to World
C. Con	clusions						
The synthetic s Surface Testin	•						unway Synthetic
I hereby certif laboratory test	•	ormation prov	ided in the r	eport is accu	ırate and is	the result of	well-conducted
I consider that	I consider that the synthetic surface product meets the requirements for a Product Certificate.						
⊠ YES	□NO						
If the answer in Track and Rur					thetic surfac	e product do	es not meet the
Authorised D	irector:	David Riç	by (Technic	al Director)			

Authorised Director:	David Rigby (Technical Director)			
Date	Cignoture (coopped coopted)	-01		
03/04/2025	Signature (scanned accepted)	Des S		