

## TEST REPORT

### Laboratory evaluation of an athletic track product

Tests performed according to EN 14877 standards (2013), ASTM D297 and ASTM D2859-06

**Report Number** R21178CAN-A1

**Product** BSS 300  
Beynon Sports Surfaces Inc.

**Client** Mike Gasparovic  
16 Alt Road, Hunt Valley Maryland 21030 USA

**Date** September 15<sup>th</sup>, 2021

*This report contains 4 pages in total. Reproduction of this report is authorized only in its entire form. Results reported are valid only for the products tested. To declare the conformity (or not), the uncertainty of the results was not taken into account. Detailed results are available on request.*

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## INFORMATION

Description	Sandwich system, non-porous			
Surface Composition	Top layer	Liquid applied 2-components PU with EPDM (1-4mm) granules embedded		
	Middle layer	Thixotropic 2-components PU		
	Bottom layer	SBR granules (1-4mm) intermixed with 1-component PU binder		
Product identification	Absolute thickness	13.8 mm	Mass per unit area	8.4 kg/m <sup>2</sup>
	Color	Red	Density	605 kg/m <sup>3</sup>
Name of the product	BSS 300			
Manufacturer	Beynon Sports Surfaces Inc.			
Sample Number(s)	CAN004021			
Date of Reception	April 23 <sup>rd</sup> , 2021			
Date of Testing	April to September 2021			
Temperature	Min	22°C	Max	24°C
Humidity	Min	49 %	Max	51 %



Face view



Back view



Profile view

## RESULTS

Property	Method	Units	Condition	Results	Requirements	Pass/Fail
Tensile Strength	EN 12230	MPa	New	0.63	$\geq 0.4$	Pass
			After hot air / water*	0.66		Pass
			After spikes**	0.51		Pass
			After hot air / water * + spikes**	0.53		Pass
		% Variation from new	After spikes**	19	$\leq 20$	Pass
			After hot air / water * + spikes**	16		Pass
Elongation at break	EN 12230	% elongation	New	65	$\geq 40$	Pass
			After hot air / water*	76		Pass
			After spikes**	61		Pass
			After hot air / water * + spikes**	70		Pass
		% Variation from new	After spikes**	7	$\leq 20$	Pass
			After hot air / water * + spikes**	8		Pass
Absolute thickness	EN 1969	mm	New	13.8	$\geq 10$	Pass
Overall thickness	EN 1969	mm	New	14.8	$\geq 10$	Pass
Color Change	EN ISO 20105-A02	Gray scale	After UVA (EN 14836)	4	$\geq 3$	Pass
Resistance to wear	EN 5470-1	g	New	1.04	$\leq 4.0$	Pass
			After UVA	1.78		Pass
Shock Absorption	EN 14808	%	After hot air / water*	39	25 – 50	Pass
			10°C	35	Classification	SA 35 - 50
			23°C	37		
			40°C	38		
Deformation	EN 14809	mm	10°C	1.8	$\leq 3$	Pass
			23°C	2.0		Pass
			40°C	2.1		Pass
Surface friction	EN 13036	-	Dry	89	80 – 110	Pass
		-	Wet	59	55 – 110	Pass

\*hot air / hot water ageing according to EN 13817 and EN 13744 Standard respectively

\*\*spike wearing according to EN 14810 Standard.

## CONCLUSION

The sample product «BSS 300» by **Beynon Sports Surfaces Inc.** fulfills all the laboratory tests requirements of **EN 14877 Standard: Synthetic surfaces for outdoor sports areas** (2013 Edition) when tested as an athletic track system.

## OTHER RESULTS

Property	Method	Units	Results	Requirements	Pass/Fail
Ignition characteristic of floor covering	ASTM D2859-06	Number of passed trials	8 trials passing out of 8 trials	7 trials passing out of 8 trials	Pass

Property	Method	Units	Results
Ash content – Chemical Analysis	ASTM D297	%	66.8%

## REPORTED BY



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