

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 R21176CAN-A1

Product BSS 100
Beynon Sports Surfaces Inc.

Client Mike Gasparovic
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Date November 02nd, 2021

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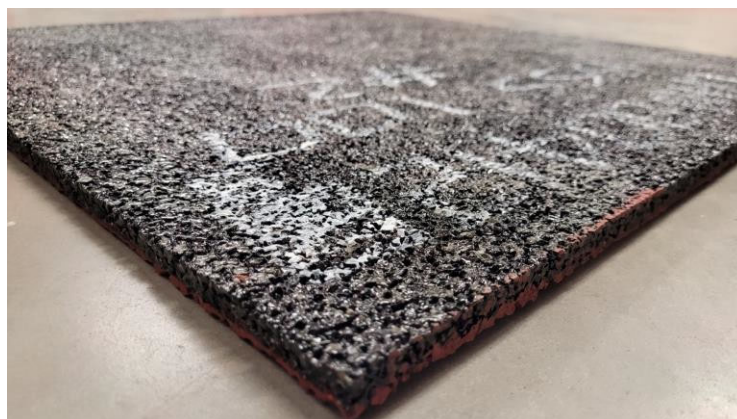


INFORMATION

Description	Spray-coat system, porous			
Surface Composition	Top layer (3 mm)	Structural red spray coating consisting of a pigmented Polyurethane intermixed with EPDM granules (0.5-2.0 mm)		
	Bottom layer (10 mm)	Black SBR Granules (1-4 mm) intermixed with Polyurethane binder		
Product identification	Absolute thickness	13.1 mm	Mass per unit area	9.3 kg/m ²
	Color	Red	Density	716 kg/m ³
Name of the product	BSS 100			
Manufacturer	Beynon Sports Surfaces Inc.			
Sample Number(s)	CAN004129			
Date of Reception	August 2021			
Date of Testing	August to November 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	0.50	≥ 0.4	Pass
			After hot air / water*	0.52		Pass
			After spikes**	0.49		Pass
			After hot air / water * + spikes**	0.51		Pass
		% Variation from new	After spikes**	2	≤ 20	Pass
			After hot air / water * + spikes**	2		Pass
Elongation at break	EN 12230	% elongation	New	48	≥ 40	Pass
			After hot air / water*	40		Pass
			After spikes**	41		Pass
			After hot air / water * + spikes**	40		Pass
		% Variation from new	After spikes**	15	≤ 20	Pass
			After hot air / water * + spikes**	-17		Pass
Absolute thickness	EN 1969	mm	New	13.1	≥ 10	Pass
Overall thickness	EN 1969	mm	New	13.3	≥ 10	Pass
Color Change	EN ISO 20105-A02	Gray scale	After UVA (EN 14836)	4	≥ 3	Pass
Resistance to wear	EN 5470-1	g	New	0.9	≤ 4.0	Pass
			After UVA	1.7		Pass
Shock Absorption	EN 14808	%	After hot air / water*	38	25 – 50	Pass
			10°C	36	Classification	SA 35 - 50
			23°C	37		
			40°C	38		
Deformation	EN 14809	mm	10°C	2.1	≤ 3	Pass
			23°C	2.3		Pass
			40°C	2.3		Pass
Surface friction	EN 13036	-	Dry	83	80 – 110	Pass
		-	Wet	58	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 100» by **Beynon Sports Surfaces Inc.** meets 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	%	89.4%

REPORTED BY



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