TEST REPORT

EN 14877 (10-2013) Standard

Synthetic surfaces for outdoor sports areas
Specicication for athletics facilities

LABORATORY TEST REPOSRT No. R240113.11-A1

Date, 04/12/2024

The results are valid only for the tested surface. Complete results available on request.

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TESTS PROGRAM

Tests methods and technical requirements considered in this report refer to the standard:

- NF EN 14877: Synthetic surfaces for outdoor sports areas - Specification for athletics facilities.

The dimensions of the tested samples conform to the testing standards.

Samples were tested in accordance with the client'e instructions (installation conditions, laying type). Results apply to sample as received.

Tests are realized in laboratory where temperature and air humidity are controlled:

Temperature (°C)	23°C ± 2°C
Air humidity (%)	50% ± 10%

Product identification

	Manufacturer declaration	Labosport results	Units
Total thickness	15.0	15.5	mm
Mass per unit area	NC	17.2	kg/m^2
Density	NC	1 110	kg/m^3
Colour	Black	Black	-

NC: Not communicated

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TESTS RESULTS

Properties	Methods	Units	Conditions	Results	Requirements
Friction	EN 13036-4 CEN Rubber	-	Wet, 23 ± 2°C	67	55 - 110
Shock absorption	EN 14808	%	Dry, 23 ± 2°C	36	35 - 50 (Classification SA 35 to 50)
			Dry, 10 ± 2°C	35	
			Dry, 40 ± 2°C	38	
			After A/W Ageing 23 ± 2°C	35	
Vertical deformation	EN 14809	mm	Dry, 23 ± 2°C	1.6	≤3.0
			Dry, 10 ± 2°C	1.4	
			Dry, 40 ± 2°C	2.0	
Water permeability	EN 12616 Part 1-Method A	mm/h	23 ± 2°C	Impermeable	Not applicable
Resistance to wear	ISO 5470-1	g	Unaged, 23 ± 2°C	0.881	≤4.0 of mass loss between 500 and 1,500 cycles
			After Ageing UVA	0.947	
Colour change	EN ISO 20105-A02	-	After Ageing UVA	3	≥3
Tensile properties	EN 12230 Method 1	Mpa	Unaged, 23 ± 2°C	0.96	≥0.40
			After A/W Ageing 23 ± 2°C	0.92	
			After Spike, 23 ± 2°C	0.94 variation: 2%	≥0.40 variation ≤20%
			After A/W Ageing and Spike 23 ± 2°C	0.91 variation: 5%	
Elongation at break	EN 12230 Method 1	%	Unaged, 23 ± 2°C	67	≥0.40
			After A/W Ageing 23 ± 2°C	64	
			After Spike, 23 ± 2°C	62 variation: 7%	≥0.40 variation ≤20%
			After A/W Ageing and Spike 23 ± 2°C	56 variation: 16%	
Absolute thickness	EN 1969	mm	23 ± 2°C	15.5	≥110mm

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(1) A/W ageing - Hot air ageing + hot water ageing

The hot air and water ageing is performed according to EN 13817 standard and immediately after according to EN 13744 standard. After surface exposure, the following properties are measured again to check any potencial change:

- Shock absorption
- Tensile properties / Elongation at break

(2) Spike resistance

The spike resistance test is performed according to test method described in the EN 14810 standard.

(3) Ageing UVA

Test according to EN 14836:2018 (Method 1).

CONCLUSION

Results of the tests mentioned below on the tested sample comply with the requirements of the EN 14877: Synthetic surfaces for outdoor aports areas (10/2013) - Specification for Athletics facilities:

- **Friction**
- **Shock absorption (Classification SA 35 to 50)**
- **Vertical deformation**
- **Resistance to wear**
- **Colour change**
- **Tensile properties**
- **Elongation at break**
- **Absolute thickness**

The results uncertainty has not been considered to declare or not the product conformity to the requirements.

Date: 04/12/2024

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