



Staatssekretariat für
Wirtschaft SECO
SAS Schweizerische
Akkreditierungsstelle
ISO 17025 STS 411



Conica AG
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CH 8207 Schaffhausen

March 08, 2020

TEST REPORT

IST Reference: 9142/TH/GL

Subject: Synthetic Sports Surfacing for Track and Field Events
Product Compatibility Test acc. to EN 14877:2013
"Synthetic surfaces for outdoor sports areas – Specification"

Description of Sample

Name of product	CONIPUR 2LX+
Description	Synthetic surface with granuled surface
3 mm	PUR with embedded EPDM Granules, red-brown, 1-3.5 mm
7 mm	SBR Granules 1-4 mm, black, PUR-bound

IST Sample No. 8599

Delivery of Samples

Date	October 11, , 2019
Amount and Size	4 Sections 50 x 50 cm

Date of Testing October 15, 2019 to March 04, 2020

The test results relate to the tested samples only.
This report consists of 4 pages.

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Acc. SN EN ISO 17025:2018 accredited by Swiss Accreditation Authority (SAS), a department of Swiss Federal Ministry of Commerce (SECO). The accreditation is valid for the test procedures listed in the Accreditation Certificate (STS411).

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Akkreditiert gemäss ISO 17025 für:
DIN 18032-2; 18035-6m 18035-7;
EN 14904+14877+15330, IAAF; FIFA

Acknowledged Test Lab; Validation see certificate:



Test Procedures

The tests were performed according to the various EN standards mentioned in EN 14877. The procedures which are accredited according to ISO 17025:2005 (STS 411) are marked with ●. Test Results ammended from different Test Reports are marked with* (if any)

Test Results

In the table below the average values of the test results are tabulated opposed to the requirements of EN 14877:2013.

Table 1 Average Test Results and Requirements of EN 14877:2013

Test Procedures	Test Results		Requirements EN 14877:2013 Light Athletic
	average values	Range	
Friction ● FT EN 13036-4 dry [1] wet [1]	81 56	80 / 82 55 / 57	dry 80 – 110 wet 55 -110
Force Reduction ● FR EN 14808 @ 10°C [%] @ 23°C [%] @ 40°C [%]	28 29 29	27 / 28 29 / 29 28 / 29	25 – 70
Vertical Deformation ● VD EN 14809 @ 10°C [mm] @ 23°C [mm] @ 40°C [mm]	1.4 1.6 1.6	1.3 / 1.5 1.5 / 1.7 1.5 / 1.6	≤ 3
Thickness (total)● [mm] EN 1969 Thickness (absolut) [mm]	11.4 10.1	11.2 / 11.5 10.0 / 10.2	≥ 10
Waterpermeability [mm/h] EN 12616	impermeable	---	---
Resistance to Wear RW [g] ISO 5470-1	2.94	2.89 / 2.99	≤ 4
Tensile Properties EN 12230 Tensile Strength [N/mm²] Elongation @ Break [%]	0.53 43	0.51 / 0.57 41 / 45	≥ 0.4 ≥ 40
Spikesresistance EN 12230 Tensile Strength [N/mm²] Elongation @ Break [%]	0.42 40	0.42 / 0.43 40 / 41	≥ 0.4 ≥ 40

Test Procedure	Test Results		Requirements EN 14877
	average values	Range	
Performance after Exposure to heat and hot water – EN 13817 and EN 13744			
Tensile Strength • [N/mm ²]	0.72	0.69 / 0.75	≥ 0.4
Elongation at Break [%]	53	50 / 58	≥ 40
Spikes Resistance EN 14810			
Tensile Strength • [N/mm ²]	0.59	0.58 / 0.61	≥ 0.4
Elongation at Break [%]	45	42 / 48	≥ 40
Force Reduction • @ 23°C [%]	28	28 / 28	25 – 60

Test Procedure	Test Results		Requirements EN 14877
	average values	Range	
Performance after Exposure to UV light acc. EN 14836			
Resistance to Wear • [g] Wheel H18 + 1000g	2.38	2.35 / 2.42	≤ 4
Color Change • Class ISO 20105-A02	4	4	min. 3

Evaluation

The synthetic surface “**CONIPUR 2LX+**” tested met the properties of EN 14877 as listed in table 2:

Table 2: Properties met

Property	Paragraph EN 14877 Table 1 Light Athletic	Additional Information
Friction	Line 1.1.1	dry and wet
Force Reduction	Line 1.1.2	Light athletics use: type SA 25 – 70
Vertical Deformation	Line 1.1.3	----
Thickness (total)	Line 1.2.6	----
Water Permeability	Line 1.2.1	----
Resistance to Wear	Line 1.2.2	----
Color Change	Line 1.2.3	----
Tensile Properties	Line 1.2.4	----
Spike Resistance	Line 1.2.5	----



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