



Staatssekretariat für
Wirtschaft SECO
SAS Schweizerische
Akkreditierungsstelle
ISO 17025 STS 411



Conica AG
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CH 8207 Schaffhausen

December 22, 2017

TEST REPORT

IST Reference: 8905/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 Vmax
Description	Granular texture, red-brown 4 mm Full POUR Coating with EPDM granules embedded 10 mm Red EPDM granules embedded in slightly foamed PUR coating
IST Sample No.	8353

Delivery of Samples

Date	August 09, 2017
Amount and Size	6 Sections 60 x 60 cm

Date of Testing August 2017 until December 20, 2017

The test results relate to the tested samples only.
This report consists of 5 pages (4 text + 1 attachment).
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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 ●. According to section 4.1 of this standard, synthetic surfaces designed for track and field event areas must be tested at 10°C, 23°C and 40°C (if not otherwise stated).

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
	average values	Range	
Friction ● FT EN 13036-4 dry [1] wet [1]	81 55	80 / 81 55 / 55	dry 80 – 110 wet 55 – 110
Force Reduction ● FR EN 14808 @ 10°C [%] @ 23°C [%] @ 40°C [%]	37 38 39	36 / 37 38 / 39 38 / 40	25 – 60
Vertical Deformation ● VD EN 14809 @ 10°C [mm] @ 23°C [mm] @ 40°C [mm]	1.7 2.0 2.1	1.7 / 1.7 1.9 / 2.0 2.0 / 2.1	≤ 3
Thickness (total)● [mm] EN 1969	14.2	14.0 / 14.5	≥ 10 (13)
Waterpermeability [mm/h] EN 12616	impermeable	----	≥ 150
Resistance to Wear ● RW [g] ISO 5470-1	1.87	1.79 / 1.94	≤ 4
Tensile Properties ● EN 12230 Tensile Strength [N/mm ²] Elongation @ Break [%]	0.58 47	0.57 / 0.61 42 / 50	≥ 0.4 ≥ 40
Spikes Resistance ● EN 14810 Tensile Strength [N/mm ²] Elongation @ Break [%]	0.48 41	0.45 / 0.49 40 / 42	≥ 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]	0.69	0.63 / 0.76	≥ 0.4
Elongation at Break [%]	50	46 / 54	≥ 40
Spikes Resistance •			
Tensile Strength [N\mm ²]	0.56	0.50 / 0.61	≥ 0.4
Elongation @ Break [%]	50	46 / 52	≥ 40
Force Reduction • @ 23°C [%]	36	35 / 36	25 – 60

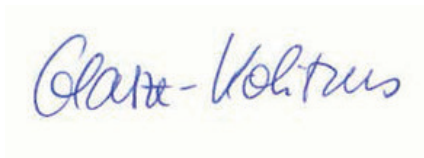
Test Procedure	Test Results		Requirements EN 14877
	average values	Range	
Performance after Exposure to UV light acc. EN 14836			
Resistance to Wear • [g] Wheel H18 + 1000g	1.59	----	≤ 4
Color Change • Class ISO 20105-A02	4	----	min. 3

Evaluation

The synthetic surface CONIPUR Vmax tested met the requirements of EN 14877:2013 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	track and field use: type SA 35 – SA 50
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	----



K. Glasze-Kolitzus
Qualitäts-Management




Thomas Hartmann
Laborleiter

8353 Sample CONIPUR Vmax
original condition (as delivered)

