

CERTIFICATE OF TEST

Certificate of test n°

25CN0097

AITEX declares that the articles:

Given by the company:

"TSA051"

According information supplied by the customer:
Composition and percentage: 87% Polyester recycled, 2% SP, 5% TPU membrane, 6% PUR
Color: Anthracite/HV Yellow/HV Orange
Woven

KUNSHAN SUNSHINETEX NEW MATERIAL CO., LTD

No. 417 Sanxiang Road Industry Zone
CN-215300 Kunshan
JIANGSU

Complies with the requirements of the standard/s:

EN ISO 20471:2013 + EN ISO 20471:2013 + A1:2016. HIGH VISIBILITY CLOTHING. TEST METHODS AND REQUIREMENTS

	TEST	RESULTS	REQUIREMENTS	REPORT No.
Clause 5.1	Yellow fabric Determination of chromaticity coordinates - As received	x = 0,403 y = 0,530 $\beta_{min} = 1,00$	x:0,387 y:0,610 x:0,356 y:0,494 x:0,398 y:0,452 x:0,460 y:0,540 $\beta_{min}: 0,70$	2025CN0096
	Yellow fabric Determination of chromaticity coordinates - After 50 washing cycles	x = 0,403 y = 0,530 $\beta_{min} = 0,99$		
Clause 5.2	Yellow fabric Determination of chromaticity coordinates - After Xenon test exposure	x = 0,393 y = 0,524 $\beta_{min} = 1,02$		
Clause 5.1	Orange fabric Determination of chromaticity coordinates - As received	x = 0,598 y = 0,348 $\beta_{min} = 0,43$	x:0,610 y:0,390 x:0,535 y:0,375 x:0,570 y:0,340 x:0,655 y:0,345 $\beta_{min}: 0,40$	2025CN0096
	Orange fabric Determination of chromaticity coordinates - After 50 washing cycles	x = 0,600 y = 0,347 $\beta_{min} = 0,42$		

Remark: Washing instructions according to Standard EN ISO 15797:2018, table 4, procedure 2 (60°C) and A type drying (tumble drying).

The test results above indicated are shown in the testing report:

2025CN0096

Issued by AITEX on: 24/01/2025.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX.

This document is a test summary and does not imply a product certification.

Signed by: Lucía Martínez
Head of PPE and Ballistic
department

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	TEST	RESULTS		REQUIREMENTS	REPORT No.		
Clause 5.3.1	Yellow fabric Colour fastness to rubbing	Dry staining = 4-5		Dry staining ≥ 4	2025CN0096		
	Anthracite fabric Colour fastness to rubbing	Dry staining = 4-5					
Clause 5.3.2	Yellow fabric Colour fastness to perspiration	Change in colour = 5 Staining = 4-5		Change in colour ≥ 4 Staining ≥ 4	2025CN0096		
	Orange fabric Colour fastness to perspiration	Change in colour = 5 Staining = 4-5					
	Anthracite fabric Colour fastness to perspiration	Change in colour = 5 Staining = 4-5					
Clause 5.3.3	Anthracite fabric Colour fastness to washing Test E2S at 95°C	Change in colour = 5 Staining = 4		Change in colour ≥ 4-5 Staining ≥ 4	2025CN0096		
Clause 5.5.3	Tensile resistance	Warp: 1136 N	Weft: 741 N	≥ 100 N	2025CN0096		
	Tear resistance	Warp: 120,62 N	Weft: 126,36 N	≥ 20 N	2025CN0096		
Clause 5.6.3	Water vapour resistance (R_{et})	$R_{et} = 19,13 \text{ (m}^2 \cdot \text{Pa/W)}$		$R_{et} \leq 5 \text{ (m}^2 \cdot \text{Pa/W)}$	2025CN0096		
	Thermal resistance (R_{ct})	$R_{ct} = 0,0500 \text{ (m}^2 \cdot \text{K/W)}$		---			
	Water vapour permeability index (i_{mt})	$i_{mt} = 0,16$		$i_{mt} \geq 0,15$			

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