TEST REPORT

APPLICANT: ZHEJIANG WTJ NEW MATERIALS TECHNOLOGY CO., LTD.

ADDRESS OF APPLICANT: BULIDING 3, NO1-8, JIANGSHAN ROAD, MEICHENG TOWN, JIANDE CITY, ZHEJIANG PROVINCE, CHINA.

Sample Description	:	FLAME-RETARDANT SILICONE LEATHER
Type	:	MARINE
Manufacturer	:	ZHEJIANG WTJ NEW MATERIALS TECHNOLOGY CO., LTD.
Manufacturer Address	:	BULIDING 3, NO1-8, JIANGSHAN ROAD, MEICHENG TOWN, JIANDE CITY, ZHEJIANG PROVINCE, CHINA.

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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Sample Receiving Date	:	Oct 10,2025
Testing Period	:	Oct 16,2025
Test Required	:	IMO International code for application of fire test procedures, 2010 (2010 FTP CODE), Annex 1 Fire test procedure, Part 8 Test for upholstered furniture.
Test result(s)	:	See attached sheet

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch

Echo Li
Approved signatory

Scan to see the report
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Sample Information

The following data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

Type of the furniture	:	Seat, Sofa, office chair
Fabric material	:	Cloth backing 48%+52% Silicone
Fabric composition of weave	:	/
Fabric density (number/inch)	:	Warp: 32; weft: 28
Fabric yarn number count	:	/
Fabric thickness	:	1.2 mm
Fabric mass per unit area	:	570 g/m^2
Fabric color and tone	:	Black
Fabric fire retardant treatment	:	Yes, Impregnated cloth backing

Test witness and attendees

CCS was notified of the intention to conduct the test detailed in this report and did not consider it necessary to send a representative to witness it.

Seal mark	:	The samples were sealed by CCS and CCS seal mark was affixed to the sample packing box.

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Introduction

The test was conducted in accordance with 2010 FTP code Annex 1 Part 8 at the request of the client. If no progressive smoldering and flame are observed during the test and the final examination specified in 7.4 of Annex 1 is passed, the sample is considered to meet the criteria requirements.

Test Specimen

Components	Cover material	Upholstery filling (provide by lab)
Materials	Leather	Non flame-retardant foam
Color	Black	White
Density / weight per unit area	518 g/m^2	21 kg/m^3
Size of specimens	800 mm × 650 mm	450 mm × 300 mm; 450 mm ×150 mm
Thickness (mm)	1.4	75

Conditioning

Cleaning procedure: None

The materials to be tested and the cigarette were conditioned immediately before the test for 72 h in indoor ambient conditions and then for at least 16 h in an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5%.

Test environment: temperature 20±5°C and relative humidity between 20% ~ 70%.

Test Result:

1. Smouldering Cigarette Test

The smouldering rate is verified according to the requirements of 2010 FTP Code, Annex 1, Part 8

Length (mm)	Diameter (mm)	Mass (g)	Smouldering time at 5mm~55mm (min.)	Smouldering rate (min./mm)
69	7.9	0.98	10	10/50

Criteria	1st test	2nd test
7.2.4) Whether progressive smouldering or flaming of the sample is observed at any time within 1 h of placement of the cigarette.	No	No
7.4) Immediately after completion of the test programme on the assembly, dismantle it and examine it internally for progressive smouldering ignition, if this is present, extinguish the test piece, and record a fail result for the relevant test source.	No	

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Test Details

Test	Dimension and mass of cigarettes	Time to extinguishment after placement of the cigarette		Extent of damage (mm)	Observations
		Flame	Smoke		
1st	Length: 69 mm Diameter: 7.9 mm Mass:0.98 g	0	20 min 42 s	70	#2
2nd	Length: 70 mm Diameter: 8.0 mm Mass:0.99 g	0	20 min 55 s	71	#2

2. Propane Flame Test

Criteria	1st test	2nd test
7.3.4) Flaming or progressive smouldering of the upholstery components is observed after 120s of the removal of the burner tube.	No	No
7.4) Immediately after completion of the test programme on the assembly, dismantle it and examine it internally for progressive smouldering ignition, if this is present, extinguish the test piece, and record a fail result for the relevant test source.	No	

Test Details

Test	Ignition source	Time to extinguishment after removal of the burner		Extent of damage (mm)	Observations
		Flame	Smoke		
1st	(20±1) s	0 s	28 s	67	#3
2nd	(20±1) s	0 s	29 s	80	#3

Conclusion: The sample **meets** the performance criteria of clause 3 of 2010 FTP Code, Annex 1, Part 8.

Remark:

#1 - Cigarette fails to smoulder its complete length.

#2 - Cigarette smoulders its complete length, but the sample was non ignition.

#3 - The sample was not ignited after removal of the burner.

#4 - Flaming but self-extinguished.

#5 - Escalating combustion and forcibly extinguished.

Deviation:

Any deviations from the test method: No

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Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Test results apply to the sample as received.

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

This test was commissioned by CCS.

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Photo Appendix



CCS Seal mark



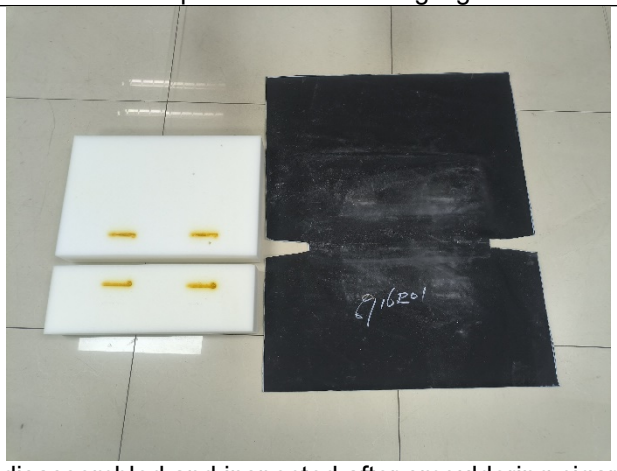
Test sample

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The test sample after smouldering cigarette test



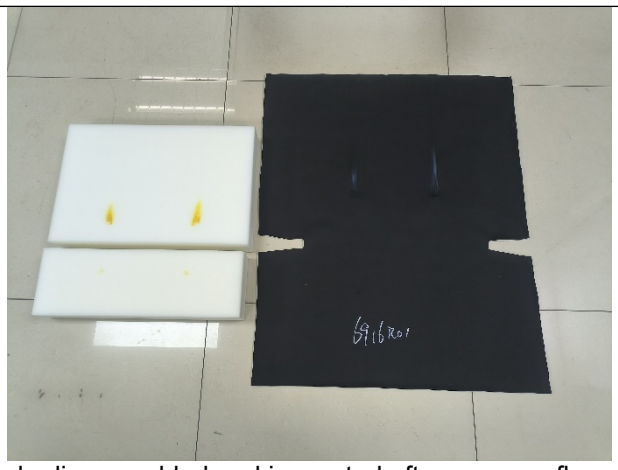
Sample disassembled and inspected after smouldering cigarette test



The test sample after propane flame test

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Sample disassembled and inspected after propane flame test

SGS authenticate the photo on original report only

End of Report

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