RICHLOOM SHANGHAI
8F,FEIZHOU INTERNATIONAL QUAR NO.899,LINGLING ROAD

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	(A)Woven fabric: in olive for UPH
Style No.	:	SEGMENT
Manufacturer	:	RICHLOOM
Proposed Care Instruction	:	-
Sample Receiving Date	:	Oct 17, 2025
Testing Period	:	Oct 17, 2025 - Oct 22, 2025
Test Result(s)	:	Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).
Test Performed	:	Selected test(s) as requested by applicant

Conclusion	**A**	**Remark**
Color Fastness To Light	*	
Flammability Test	Pass	
Cigarette Ignition Resistance of Components of Upholstered Furniture	*	
Pilling Resistance	*	

Remark(s) : Pass=Meet General's Requirement
*= No Specific Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd

Eric chen

Eric Chen (Account Executive)

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Test Result

Color Fastness To Light

(AATCC TM16.3-2020, Option 3;Xenon Arc Lamp)

As Received

After 40 AFU

-	Unit	**A**	Requirement
Change in Shade	Grade	3.5	-

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Smolder Resistance Test of Materials Used in Upholstered Furniture
(California Technical Bulletin 117-2013)

Section 1: Cover Fabric Test

Sample (A)

Test results

Specimen No.	Duration of smoldering (min:sec)	Open flaming (Yes/No)	Vertical char length (mm)	Comments
1	23min47sec	No	17	Pass
2	23min57sec	No	17	Pass
3	25min11sec	No	18	Pass

Pass/fail criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:

a) The mock-up test specimen continues to smolder after the 45 minute test duration.
b) A vertical char length (measured as specified in step 11.9 of ASTM E1353-08a $^{\varepsilon 1}$) of more than 1.8 inches (45 mm) develops on the cover fabrics.
c) The mock-up test specimen transitions to open flaming.

2. The cover fabric passes the test if three initial mock-up specimens pass the test.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens fails, repeat the test on additional three specimens.
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

Conclusion:

The Submitted Sample **meets** the flammability requirements of Section 1 for Cover Fabric Test of California Technical Bulletin 117-2013.

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Pilling Resistance#

(ASTM D3511/D3511M-16)

As Received

-	Unit	A	Requirement
Pilling/Fuzzing Rating	-	4.0	-

Remarks:
For Pilling:
5 No pilling
4 Slight pilling
3 Moderate pilling
2 Severe pilling
1 Very severe pilling

For Fuzzing:
5 No fuzzing
4 Slight fuzzing
3 Moderate fuzzing
2 Severe fuzzing
1 Very severe fuzzing

#: This test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. HangZhou Branch

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Cigarette Ignition Resistance of Components of Upholstered Furniture##
(National Fire Protection Agency (NFPA) 260-2024)

Section 1: Cover Fabric Test

Sample: (A)

Conditioning:

All test upholstery fabrics and test materials, including cigarettes and sheeting material, shall be conditioned at a temperature of 21℃±2.8℃ and a relative humidity of less than 65 percent for at least 4 hours prior to testing.

Test results:

Specimen No.			1	2	3
Duration time (min: sec)			24min11sec	26min23sec	24min27sec
7.3	Vertical char length (mm)		20	20	20
7.5	Transitions from smoldering combustion to flaming combustion (Yes/No)		No	No	No
7.6	Obvious ignition (Yes/No)		No	No	No
7.7	Char length after 45 minutes is still growing or visible smoke is still emerging (Yes/No)		No	No	No
7.8	Procedure after 45 minutes	Any of the interior surfaces of the material are still glowing, visible smoke continues to be emitted for another 10 seconds, or the specimen transitions to flaming combustion (Yes/No)	No	No	No
		The formation of a cavity in the filling or padding or discoloration of the filling or padding is observed	Formation of a cavity Discoloration	Formation of a cavity Discoloration	Formation of a cavity Discoloration

Remark:
*: Cigarette self-extinguishes.
If a cigarette extinguishes before burning its entire length, a fresh cigarette shall be placed on a fresh area of the test assembly and covered with sheeting fabric until one of the following occurs:
(1) Three cigarettes have burned their entire lengths on three individual test specimens.

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(2) Three cigarettes have self-extinguished on the sample.
#: Forcibly extinguished.
(1) Clause 6.1.2.1: The test operator shall terminate a test prior to the 45 minute time limit if the vertical char length has exceeded the limit prescribed in Section 7.3.
(2) Clause 6.1.2.2: The test operator shall terminate a test prior to the 45 minute time limit if the test specimen has transitioned to flaming combustion.
(3) Clause 6.1.2.3: The test operator shall terminate a test prior to the 45 minute time limit if obvious ignition of the test specimen, in accordance with Section 7.2, has occurred.

Cigarette Resistance Classifications:

1. The test duration shall be 45 minutes from the time the lit cigarette is placed on the test specimen unless otherwise required by 6.1.2.

   Clause6.1.2: If the test is terminated before 45 minutes have elapsed due to any one of the reasons in 6.1.2.1 through 6.1.2.3, the material shall be designated Class Ⅱ.

2. **Clause 7.1:** General.

   (1) Clause 7.1.1: Furniture components shall be classified as Class Ⅰ or Class Ⅱ in accordance with Section 7.2 through Section 7.9.

   (2) Clause 7.1.2: An upholstered furniture component shall meet all the requirements of a Class Ⅰ material to be considered resistant to Cigarette ignition.

   (3) Clause 7.1.3: Any material that does not meet all the requirements for a Class Ⅰ material shall be designated a Class Ⅱ material.

3. **Clause 7.2:** Evidence of Ignition. For this test method, the existence of pronounced, continuous, and self-sustaining combustion of the test system or the generation of a flame or smoke shall be evidence of ignition.

   Clause 7.6: Obvious Ignition. A material shall be classified as Class Ⅱ material if the test specimen exhibits obvious ignition by virtue of generating a visible flame or smoke (Section 7.2).

4. **Clause 7.3.1:** The maximum vertical char lengths for upholstered furniture components shall be as follows:

   (1) Cover fabrics: < 45 mm

   (2) Interior fabrics: < 38 mm

   (3) Welt cords: < 38 mm

   (4) Fillings or paddings: < 38 mm

   (5) Barrier materials: < 38 mm

   Clause 7.3.2: The maximum horizontal char length for decking materials, as measured from the original position of the cigarette, shall be < 38 mm.

   Clause 7.4: A material shall be classified as a Class Ⅱ material if the test specimen exhibits a vertical char length that meets or exceeds the prescribed limit set forth in Section 7.3.

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5. **Clause 7.5:** A material shall be classified as a Class Ⅱ material if the test specimen transitions from smoldering combustion to flaming combustion.
6. **Clause 7.7:** A material shall be classified as a Class Ⅱ material if, after 45 minutes have elapsed since the lit cigarette was placed on the test specimen, the char length is still growing or visible smoke is still emerging.
7. **Clause 7.8.1:** Procedure After 45 Minutes. If any of the interior surfaces of the material are still glowing. visible smoke continues to be emitted for another 10 seconds, or the specimen transitions to flaming combustion, the material shall be designated a Class Ⅱ material.
8. **Clause 7.9:** If a material does not exhibit any of the criteria in Section 7.2 through 7.8.1, the material shall be designated a Class Ⅰ material.

Conclusion: Class Ⅰ.

##: This test was carried out by SGS-CSTC Standards Technical Services (ChangZhou) Co. Ltd.

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