

CA TB 117:2013 – Smolder Resistance of Materials used in Upholstered Furniture
-Section 1: Cover Fabric Test

Requirements:

A cover fabric material passes or fails based on following 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 45 minutes test duration.
 - b. A vertical Char length (as specified in step 11.9 of ASTM E1353-16) of more than 1.8 inches (45 mm) develops on the cover fabric.
 - c. The mock-up test specimen transitions to open flaming.
2. The cover fabric passes if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-ups are no longer smoldering.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens fail, 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.

Results:

Component Description: Fabric Style: 4295 Cirrus, Color: 4295-03			
Initial Test			
	Vertical Char length (Inches)	Mock-up specimen continues to smolder after 45 minutes	Mock-up test specimen transitions to open flaming
Specimen 1	0.8	No	No
Specimen 2	0.6	No	No
Specimen 3	0.6	No	No

Conclusion:

The cover fabric material submitted **Passes** the flame resistance requirements when tested in accordance with the Bureau of Electronic & Appliance Repair Home Furnishings and Thermal Insulation, Technical Bulletin 117 – 2013, Section 1: Cover fabric test.

Note: If the Cover fabrics pass this section, the first layer of filling materials located below the cover fabric shall meet the test requirements of section 3 of CA TB -117 :2013.