

Style# : 7130

COLORFASTNESS TO CROCKING

AATCC 8-2013

Dry 4.5
Wet 4.5

RATING SYSTEM

Grade 5, Negligible Color Change/Staining
Grade 4, Slight Color Change/Staining
Grade 3, Noticeable Color Change/Staining
Grade 2, Considerable Color Change/Staining
Grade 1, Excessive Color Change/Staining

NFPA 260-2013 - Standard Methods of Test and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture

The material submitted is an NFPA 260 Class I cover fabric when tested in accordance with NFPA 260, Fabric Classification Test Method.

Specimen #	Vertical Char Length (mm)
1	9
2	11
3	13

Classification:

Class 1 - This class includes all fabrics which exhibit a vertical char of less than 45 mm on each of the three replications when subjected to the fabric classification test of NFPA 260, Section 6.1.

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CA TB 117:2013 – Smolder Resistance of Materials used in Upholstered Furniture

-Section 1: Cover Fabric Test

The cover fabric material submitted **does meet** 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

	Vertical Char length (Inches)	Mock-up specimen continues to smolder After 45 Minutes	Mock-up test specimen transitions to open flaming
Specimen 1	0.4	No	No
Specimen 2	0.4	No	No
Specimen 3	0.4	Yes	No
Additional Test			
Specimen 4	0.5	No	No
Specimen 5	0.4	No	No
Specimen 6	0.4	No	No

Requirements: A cover fabric material considered pass or fail 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 (measured as specified in step 11.9 of ASTM E1353-08a^{e1}) 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 the test 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 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.

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

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Fire Tests for Flame Propagation of Textiles and Films – Method 1

NFPA 701:2015 – As received

Specimen	After Flame Time (s)	Burning Drippings Time (s)	Weight Before Exposure (g)	Weight After Exposure (g)	Weight Loss (%)	Burning Observations		
						Molten Drippings	Smoke Color/Type	Smoke Density/Amount
1	0.0	0.0	23.1	19.6	15.2	No	Grey	Light
2	0.0	2.3	23.0	18.3	20.4	No	Grey	Light
3	0.0	0.0	23.1	20.2	15.6	No	Grey	Light
4	0.0	0.0	23.1	21.3	7.8	No	Grey	Light
5	0.0	0.0	23.1	19.0	17.7	No	Grey	Light
6	0.0	0.0	23.1	20.7	10.4	No	Grey	Light
7	0.0	0.0	23.0	21.8	5.2	No	Grey	Light
8	0.0	4.1	23.1	16.9	26.8	No	Grey	Light
9	0.0	0.0	23.0	20.5	10.9	No	Grey	Light
10	0.0	0.0	23.0	21.6	6.1	No	Grey	Light
Average	0.0	0.64	23.06	19.99	13.3			
Standard Deviation					6.83			

To pass, a sample shall meet below criteria

10.1.1.1 Fragments or residues of specimens that fall to the floor of the test chamber shall not continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens.

10.1.1.2 The average weight loss of the 10 specimens in a sample shall be 40 percent or less.

10.1.1.3 No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.

10.1.1.4 When a retest is required, no individual specimen's percent mass loss in the second set of specimens shall deviate from the mean value by more than 3 standard deviations calculated for the second set.

Conclusion:

The submitted sample **passes** when tested in accordance with NFPA 701, Fire Tests for Flame Propagation of Textiles and Films, Test Method 1.

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