

NFPA 701:2019 – Fire Tests for Flame Propagation of Textiles and Films – Method 1

Sample Description: Sample: Upholstery Fabric – Style: 4079 Giza

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	14.0	13.7	2.1	No	Grey	Light
2	0.0	0.0	14.1	14.0	0.7	No	Grey	Light
3	0.0	0.0	13.7	13.4	2.2	No	Grey	Light
4	0.0	0.0	13.9	12.9	7.2	Yes	Grey	Light
5	0.0	0.0	13.7	13.4	2.2	No	Grey	Light
6	0.0	0.0	13.7	13.4	2.2	No	Grey	Light
7	0.0	0.0	13.8	13.5	2.2	No	Grey	Light
8	0.0	0.0	13.5	13.1	3.0	No	Grey	Light
9	0.0	0.0	13.7	13.4	2.2	No	Grey	Light
10	0.0	0.0	13.9	13.6	2.2	Yes	Grey	Light
Average	0.0	0.0	13.8	13.44	2.6	-	-	-
Standard Deviation	-	-	-	-	1.70	-	-	-

Record burning observations: the type, amount, color, density and odor of smoke produced, the vigorousness of burning, and the dripping of molten materials. If others, specify in the above result table.

For and on behalf of
Intertek Products Group North America:

Michelle Choi
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RETEST CRITERIA

Where the percent weight loss of any individual specimen exceeds the mean value plus three standard deviations, the test shall be repeated on another sample of 10 specimens. The mean percent weight loss and standard deviation for the second set of 10 specimens shall be calculated.

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.

For and on behalf of
Intertek Products Group North America:

Michelle Choi
Intertek

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