

Test Result

Fire Tests for Flame Propagation of Textiles and Films

(NFPA 701-2023 Test Method 1)

Sample: A

As Received

Specimen	1	2	3	4	5	6	7	8	9	10	Average
Afterflame time(s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
The flaming time of material that falls to the bottom of the chamber(s)	0.0	0.0	1.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Flaming droplets or other flaming debris	N	N	Y	N	N	Y	N	N	N	N	

Specimen	Weight (g)		Weight Loss (%) (O-T) / O x 100
	Original (O)	After test (T)	
1	19.1	17.0	11.0
2	19.0	16.5	13.0
3	18.8	17.1	9.0
4	18.8	17.3	8.0
5	18.8	16.3	13.3
6	18.8	16.2	13.8
7	18.7	17.3	7.5
8	18.7	16.6	11.2
9	18.7	17.2	8.0
10	19.1	16.3	14.7
Average			11.0
Standards deviation			2.7

Remark: Y: Yes N: No

Conditioning:

- The specimens were dried for at least 30 minutes at $105^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($220^{\circ}\text{F} \pm 5^{\circ}\text{F}$).
- The specimens melt or permanently deform at 105°C (220°F). Thus, they were conditioned at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ($68^{\circ}\text{F} \pm 9^{\circ}\text{F}$) for at least 24 hours prior to flame exposure

Requirements:

1. Fragments or residues of specimens that fall to the floor of the test chamber shall not continue flaming for more than an average of 2 seconds per specimen for the sample of 10 specimens.
2. The average weight loss of the 10 specimens in a sample shall be 40 percent or less.
3. No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.
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.



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