



**UL 94-2013 TESTS FOR FLAMMABILITY
OF PLASTIC MATERIALS
Vertical Burning Test for Classifying
Materials 94V-0, 94V-1 or 94V-2**

TEST REPORT

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(This specimen was received in good condition.)

Test Date: September 13, 2018

Report Date: September 13, 2018

Project No: 103643433SAT-003

Sample Identification: 12 mm pu Acoustical Non- Flammable Foam, 90
kg/m³

Description: 12 mm Procell Black Colour PU Acoustical Non-
Flammable Foam, 90 kg/m³

Specimens Dimensions: 130mm x 17mm x 10mm thick

This Test Witnessed by: N/A

Environmental Conditions: 72°F and 71% r.h.

Specimen Conditioning

Five sets of specimens (numbers 1 through 5) were conditioned for at least 48 hours at a temperature of $23 \pm 2^{\circ}\text{C}$ and a relative humidity of $50 \pm 5\%$ prior to testing and five specimens (numbers 6 through 10) were conditioned in a circulating air oven for a duration of 168 hours at $70 \pm 1^{\circ}\text{C}$ and then cooled in a desiccator, over anhydrous calcium chloride, for at least 4 hours at room temperature prior to testing.

Summary of Test Method

Each specimen is supported from the upper 6 mm of the specimen with the longitudinal axis of the specimen in the vertical position. The lower end of the specimen is 10 mm above the top of the burner tube and 300 mm above a horizontal layer of dry absorbent surgical cotton. The burner is then ignited, adjusted to produce a blue flame 20 mm high, and then placed centrally under the lower end of the test specimen and allowed to remain there for 10 seconds. The burner is then withdrawn and the duration of flaming of the specimen is noted. When flaming ceases, the test flame is immediately placed again under the specimen. After 10 seconds, the test flame is again withdrawn and the duration of flaming and glowing is noted.

Located 300 mm below the test specimen is a flat sheet of cotton material. If flaming particles/drops fall to the cotton and ignite it, this is noted and used to help classify the material.

MATERIAL CLASSIFICATION TABLE

CRITERIA CONDITIONS	V-0	V-1	V-2
Afterflame time for each individual specimen t_1 or t_2	$\leq 10\text{sec.}$	$\leq 30\text{sec.}$	$\leq 30\text{sec.}$
Total afterflame time for any condition set (t_1 plus t_2 for the 5 specimens)	$\leq 50\text{sec.}$	$\leq 250\text{sec.}$	$\leq 250\text{sec.}$
Afterflame plus afterglow time for each individual specimen after the second flame application (t_2 plus t_3)	$\leq 30\text{sec}$	$\leq 60\text{sec.}$	$\leq 60\text{sec.}$
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Test Results:

Specimen Number	Duration of Flaming After First Application (sec) t_1	Duration of Flaming After Second Application (sec) t_2	Duration of Glowing After Second Application (sec) t_3	Afterflame Plus Afterglow t_2 plus t_3 (sec)	Did Specimen Burn Up to Holding Clamp? Y/N	Did Cotton Swatch Ignite? Y/N
1	0	0	0	0	N	N
2	0	0	0	0	N	N
3	0	0	0	0	N	N
4	0	0	0	0	N	N
5	0	0	0	0	N	N
6 (ov)	0	0	2	2	N	N
7 (ov)	0	0	1	1	N	N
8 (ov)	0	0	1	1	N	N
9 (ov)	0	0	1	1	N	N
10 (ov)	0	0	2	2	N	N

Total Flaming Combustion Time t_1 plus t_2 (Specimens 1 - 5) = 0 seconds

Total Flaming Combustion Time t_1 plus t_2 (Specimens 6 - 10) = 0 seconds

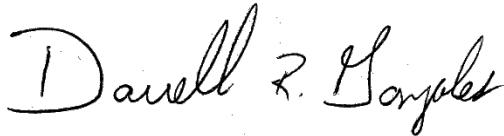
OV = Oven Conditioned Specimens.

Conclusion:

CLASSIFICATION ACHIEVED:	V-0
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This report contains a total of four pages.



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