

POLYFILL LLC

TEST REPORT

SCOPE OF WORK

UL 94-2013 TEST FOR FLAMMABILITY OF PLASTIC MATERIALS; VERTICAL BURNING TEST FOR CLASSIFYING MATERIALS 94V-0, 94V-1 OR 94V-2 ON SONOBLOCK-FR 0500

REPORT NUMBER

104263375SAT-002

TEST DATE(S)

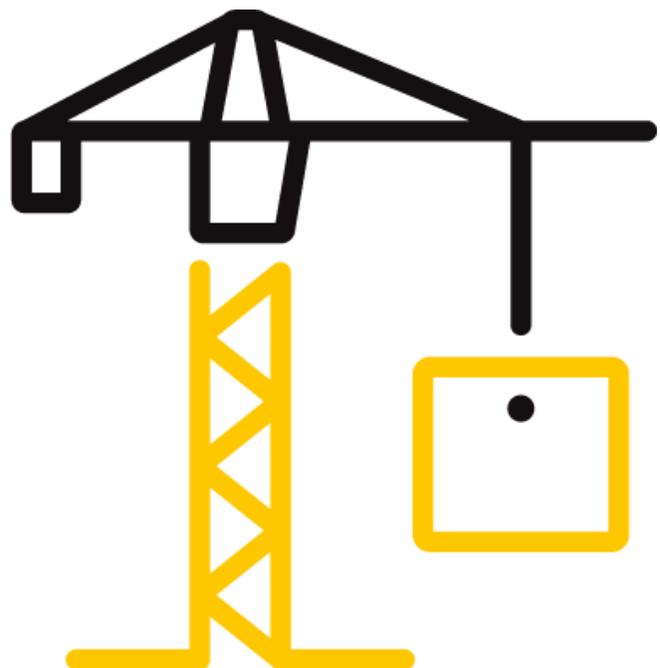
04/14/2020

ISSUE DATE

04/16/2020

PAGES

5



TEST REPORT FOR POLYFILL LLC

Report No.: 104263375SAT-002

Date: 04/16/2020

REPORT ISSUED TO

POLYFILL LLC

960 N. Vandemark Rd.

Sidney, OH 45365

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by POLYFILL LLC, 960 N. Vandemark Rd., Sidney, OH 45365 to perform testing in accordance with UL 94-2013 Test for Flammability of Plastic Materials; Vertical Burning Test for Classifying Materials 94V-0, 94V-1 or 94V-2, on their SONOBLOCK-FR 0500. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in Elmendorf, Texas. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Theodore Salazar	REVIEWED BY:	Servando Romo
TITLE:	Technician 3	TITLE:	Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	04/16/2020	DATE:	04/17/2020

SECTION 2

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

UL 94-2013, Test for Flammability of Plastic Materials; Vertical Burning Test for Classifying Materials 94V-0, 94V-1 or 94V-2

SECTION 3

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Theodore Salazar	Intertek B&C

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SECTION 4

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.

SECTION 5

TEST PROCEDURE

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.

SECTION 6

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

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SECTION 7

TEST SPECIMEN DESCRIPTION

SAMPLE ID*	SONOBLOCK-FR 0500
DESCRIPTION	Fire-Resistant EVA Acoustic Barrier
SPECIMEN PREP	Samples were submitted to Intertek directly from the client and were cut to the desired length.
SPECIMEN DIMENSIONS	Size 130mm x 13mm x 1.98mm (average thickness)
RECEIVED DATE	04/01/2020 (Samples received in good condition)
INTERTEK SAMPLE TRACKER NUMBER	SAT2004011119-001
ENVIRONMENTAL CONDITIONS	67°F and 45% r.h.
TEST WITNESSED BY	N/A

*From the client's material description and/or instructions

SECTION 8

TEST RESULTS

Specimen Number	Duration of Flaming After First Application	Duration of Flaming After Second Application	Duration of Glowing After Second Application	Afterflame Plus Afterglow	Did Specimen Burn Up to Holding Clamp?	Did Cotton Swatch Ignite?
	(sec) t ₁	Application (sec) t ₂	(sec) t ₃	t ₂ plus t ₃ (sec)	Y/N	Y/N
1	156	0	0	0	Y	N
2	34	153	0	153	Y	Y
3	73	104	0	104	N	Y
4	18	41	0	41	N	Y
5	110	20	0	20	N	N
6 (ov)	88	93	0	93	Y	Y
7 (ov)	131	60	0	60	Y	Y
8 (ov)	11	10	0	10	N	Y
9 (ov)	25	5	0	5	N	Y
10 (ov)	150	7	0	7	N	N

OV = Oven Conditioned Specimens.

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Total Flaming Combustion Time t1 plus t2 (Specimens 1 - 5) =	709	seconds
Total Flaming Combustion Time t1 plus t2 (Specimens 6 - 10) =	580	seconds

SECTION 9

CONCLUSION

CLASSIFICATION ACHIEVED:	NONE
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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	04/16/2020	N/A	Original Report Issue

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