

Client: Burger & CIE
Zone Industrielle Bos L'Abbesse
Liepvre, France 68660

Test Report No:

TJ8278-1

Date:

September 21, 2021

SAMPLE ID:

The test samples are identified as

REF 20359 / mafill CR CT 5344

SAMPLING DETAIL:

Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT:

Samples were received at QAI on

September 1, 2021

TESTING PERIOD:

September 13, 2021

AUTHORIZATION:

Proposal number: 20MB10135R5

approved on

March 4, 2021

TEST PROCEDURE:

The submitted sample was tested in accordance with the procedures outlines in UL-94 (2013), "Tests for Flammability of Plastic Materials" (Horizontal Burning Foamed Material Test, HBF, HF-1, and HF-2)

TEST RESULTS:

Results can be found on the following pages and apply only to the sample tested.

CLASSIFICATION:

The sample identified

REF 20359 / mafill CR CT 5344

Is classified as:

HBF

with the requirements of UL 94-2013,

Section 12, for HF-1, HF-2 or HBF classification

PREPARED BY:

Signed for and on behalf of QAI Laboratories, Inc.



Name

Hunter Hoffman

Name

Michael Lowry

Title

Project Engineer

Title

Project Manager - Fire Lab

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RESULTS:

SAMPLE: REF 20359 / mafill CR CT 5344

Specimens were preconditioned in accordance with ASTM D 618 (ISO 291) at 23 +/- 2°C and 50 +/- 5 percent relative humidity for a minimum of 48 hours prior to testing.

Specimen No.	After Flame Time(sec.)	Requirement (sec)	Distance Burned (mm)	Requirement (mm)	Cotton Indicator Ignition	Requirement	Burn Rate (mm/min)
1.	570	2, Max	100	60, Max.	No	None	11
2.	601	2, Max	100	60, Max.	No	None	10
3.	586	2, Max	100	60, Max.	No	None	10
4.	362	2, Max	100	60, Max.	No	None	16
5.	406	2, Max	100	60, Max.	No	None	14

Specimens were preconditioned in an air-circulating oven for 168 +/- 2 hours at 70 +/- 2°C and then cooled in the desiccator for 4 hours at room temperature prior to testing.

Specimen No.	After Flame Time(sec.)	Requirement (sec)	Distance Burned (mm)	Requirement (mm)	Cotton Indicator Ignition	Requirement	Burn Rate (mm/min)
1.	355	2, Max	100	60, Max.	No	None	17
2.	340	2, Max	100	60, Max.	No	None	18
3.	375	2, Max	100	60, Max.	No	None	16
4.	307	2, Max	100	60, Max.	No	None	20
5.	315	2, Max	100	60, Max.	No	None	19

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Test Criteria:

Materials shall be classed HBF, HF-1, or HF-2, on the basis of test results obtained on small specimens when tested as described in 12.2.1 – 12.6.2.

Materials classified HBF shall:

- a) Not have any specimens with a burning rate exceeding 40 mm per minute over a 100 mm span, or
- b) Have each specimen cease to burn before flaming or glowing reaches the 125 mm gauge mark.

Table 12.1
Material classifications

Criteria Conditions	HF-1	HF-2
Afterflame time	4/5 is $\leq 2s$ 1/5 is $\leq 10s$	4/5 is $\leq 2s$ 1/5 is $\leq 10s$
Afterflame time plus afterglow time for each individual specimen	$\leq 30s$	$\leq 30s$
Cotton indicator ignited by flaming particles or drops	No	Yes
Damaged length for each individual specimen	$< 60mm$	$< 60mm$
Notes: 4/5 – Four out of a set of five specimens. 1/5 – One out of a set of five specimens.		