

# FLAMEOFF COATINGS, INC. TEST REPORT

## SCOPE OF WORK

TAPPI T461 CM-09 FLAME RESISTANCE OF TREATED PAPER AND PAPERBOARD TESTING ON  
TYPE 1 PAPER TREATED WITH FR CLEAR 20%.

## REPORT NUMBER

105712706MID-001

## TEST DATE(S)

02/19/24

## ISSUE DATE

02/20/24

## [REVISED DATE]

N/A

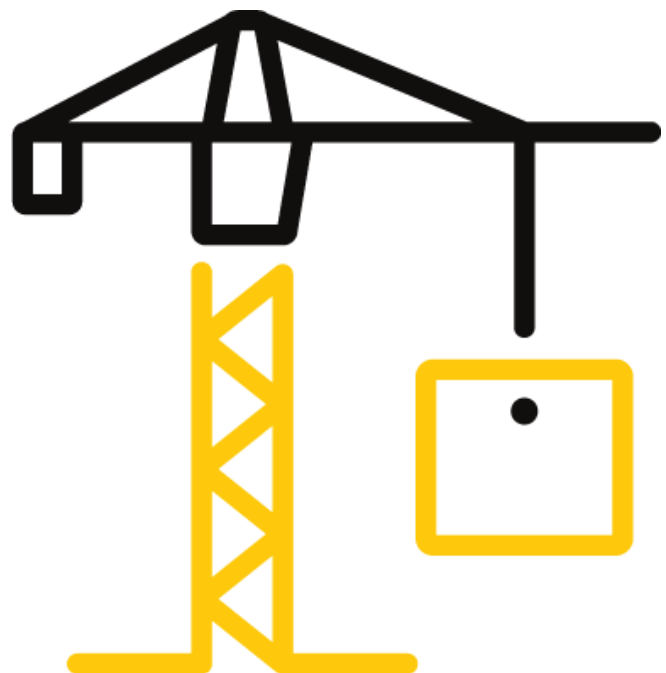
## PAGES

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## DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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## TEST REPORT FOR FLAMEOFF COATINGS, INC.

Report No.: 105712706MID-001

Date: 02/20/24

### REPORT ISSUED TO

#### FLAMEOFF COATINGS, INC.

5323 Griffith Park Road

Raleigh, NC 27613

### SECTION 1

#### SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by FlameOff Coatings, Inc., 5323 Griffith Park Road, Raleigh, NC 27613 to perform testing in accordance with TAPPI T461 cm-09-*Flame resistance of treated paper and paperboard*, on their Type 1 Paper Treated with FR Clear 20%. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Middleton, WI.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

### SECTION 2

#### SUMMARY OF TEST RESULTS

Type 1 Paper Treated with FR Clear 20% had an average char length of 59 mm.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Joel Zumwalt	<b>REVIEWED BY:</b>	Mark Crawford
<b>TITLE:</b>	Lab Technician II	<b>TITLE:</b>	Engineering Team Lead
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	02/20/24	<b>DATE:</b>	02/20/24

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### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**T 461 cm-09**, *Flame resistance of treated paper and paperboard*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. The results outlined in this report apply to the sample as received. Samples were received at the Evaluation Center on February 9, 2024 in good condition verified by Sample ID# MID2402091353-001.

### SECTION 5

#### EQUIPMENT

EQUIPMENT			
DESCRIPTION - ASSET #:	Stopwatch - 1583	CALIBRATION DUE:	7/5/2024
DESCRIPTION - ASSET #:	Burner - 1476	VBU:	2/19/2024
DESCRIPTION - ASSET #:	Test Cabinet - 1204	CALIBRATION DUE:	FRO
DESCRIPTION - ASSET #:	Temp/Humid Reader Sample Rm - 1451	CALIBRATION DUE:	3/7/2024
DESCRIPTION - ASSET #:	Temp/Humid Reader - 1562	CALIBRATION DUE:	1/18/2025

### SECTION 6

#### TEST PROCEDURE

Testing is conducted in accordance with Section 5.2 thru 5.3.2 of the Standard. 99.5% purity Methane was utilized for testing.

### SECTION 7

#### TEST CRITERIA

The Standard has no specified performance requirements regarding pass/fail criteria

### SECTION 8

#### TEST SPECIMEN DESCRIPTION

Samples were received as four approximately 215 mm by 70 mm panels tan in color. Two panels were in the machine direction and two panels were in the cross direction. These panels were allowed to condition in accordance with Section 5.2.1 of the Standard by Intertek prior to testing. The gas used for testing was CP GR 2.5 Methane.

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### SECTION 9

#### TEST RESULTS

TEST RESULTS				
12 Second Flame Exposure Control 1 Not Treated				
Specimen	Direction	Flame Duration (Sec.)	Glowing Time (Sec.)	Char Length (mm)
1	MD	0	0	60
2	MD	0	0	47
3	CD	0	0	52
4	CD	0	0	75
AVERAGE		0	0	59

#### OBSERVATIONS

Specimens ignited upon introduction to test flame producing minimal light grey smoke, self-extinguishing prior to removal of test flame.  
Specimen exhibited no after flame or after glow.

### SECTION 10

#### CONCLUSION

Type 1 Paper Treated with FR Clear 20% had an average char length of 59 mm.

### SECTION 11

#### REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	02/20/24	N/A	Original Report Issue