

NFPA 701-2023 · United States

Method 1 + Method 2

molo soft collection

brown paper

molo design, ltd.

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NFPA 701-2023 · United States

Standard methods of fire tests for flame propagation of textiles and films (METHOD 1 AND METHOD 2)

molobrown paper products have passed fire rating testing under the North American standard NFPA 701-2023 Method 1 and Method 2.

NFPA 701-2023 establishes standardized procedures for assessing the flame propagation characteristics of textiles and films used in interior applications, with Method 1 and Method 2 selected based on material weight, composition, and construction.

Method 1:

Applies to lightweight fabrics with an areal density of 700 g/m² (21 oz/yd²) or less, such as curtains and draperies, and evaluates flame spread using vertically suspended specimens exposed to a controlled ignition source to determine whether flame propagation remains limited.

Method 2:

Applies to heavier, multilayered, coated, or non-fabric materials, including vinyls and plastic films, and utilizes a more rigorous testing procedure appropriate for materials with greater mass or complex assemblies.

Both methods are designed to assess the tendency of a material to resist flame propagation beyond the area of direct flame impingement under controlled laboratory conditions.

All products should always be kept away from any open flame or heat source to avoid possible damage.

MOLO DESIGN LTD.

TEST REPORT

SCOPE OF WORK

NFPA 701-2019, METHOD 1 - STANDARD METHODS OF FIRE TESTS FOR FLAME
PROPAGATION OF TEXTILES WITH AREAL DENSITIES LESS THAN OR EQUAL TO 700 G/M²

REPORT NUMBER

K1072.02-121-24-R1

TEST DATE(S)

08/29/19

ISSUE DATE

09/16/19

REVISION DATE

04/23/24

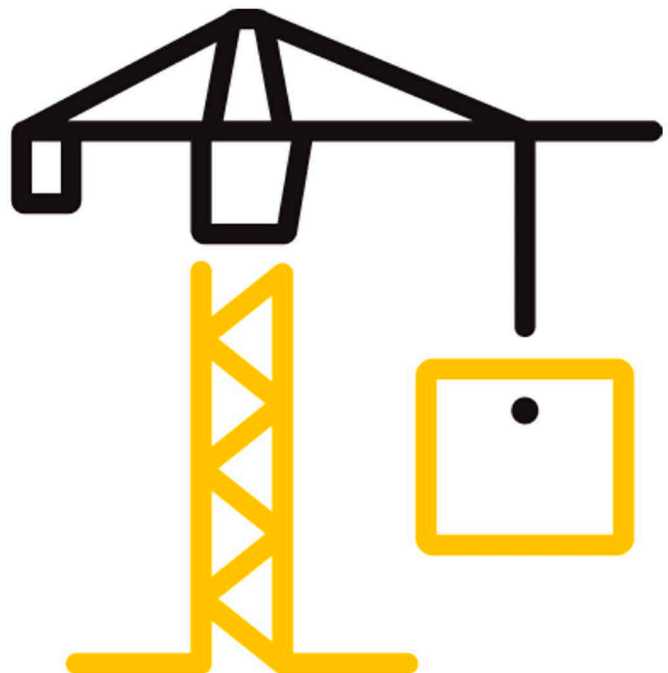
PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-4098 (02/27/19)

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TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R1

Date: 09/16/19

Revision Date: 04/23/24

REPORT ISSUED TO

MOLO DESIGN, LTD.

1470 Venables St.

Vancouver, British Columbia V5L 2G7

Canada

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Molo Design, Ltd., Vancouver, British Columbia to perform testing in accordance with NFPA 701-2019, Method 1 Standard Methods of Fire Tests for Flame Propagation of Textiles with areal densities less than or equal to 700 g/m², on their FR treated natural kraft paper. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek testing facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. 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, or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

No specimen had an average weight loss greater than forty percent (40%). The percent weight loss each individual specimen did not exceed the mean percent weight loss value. There was no flaming on floor of apparatus lasting longer than two seconds.

The specimens met the specified performance requirements.

For INTERTEK B&C:

COMPLETED BY:	Scott Gingrich
TITLE:	Manager - Mobile Fire Apparatus Testing
SIGNATURE:	 Digitally Signed for: Scott Gingrich by Dottie Rushing
DATE:	04/23/24

REVIEWED BY:	Ethan Grove
TITLE:	Sr. Regional Manager
SIGNATURE:	 Digitally Signed for: Ethan Grove by Dottie R. Rushing
DATE:	04/23/24

SDG:ddr

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TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R1

Date: 09/16/19

Revision Date: 04/23/24

SECTION 3**TEST METHOD(S)**

The specimens were evaluated in accordance with the following:

NFPA 701-2019, *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films*
*Method 1***SECTION 4****MATERIAL SOURCE**

Test samples were provided by the client.

SECTION 5**EQUIPMENT**

EQUIPMENT		
ASSET No.:	DESCRIPTION:	CALIBRATION DUE:
65100	Stopwatch -	08/07/2020
64989	Gauge	10/02/2019
INT00024	Scale -	04/02/2020
63521	Flowmeter -	04/02/2020
65411	Temp/Humid Reader -	05/28/2020

TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R1

Date: 09/16/19

Revision Date: 04/23/24

SECTION 6

TEST PROCEDURE

Testing was conducted in accordance with Chapters 4-10; Flame Test Procedures for Test Method 1.

SECTION 7

TEST SPECIMEN DESCRIPTION

10 samples of FR treated natural kraft paper were tested. The material has a color of Brown and had an areal density of less than 700 g/m². The specimens were 6 in. wide x 16 in. long.

SECTION 8

TEST RESULTS

Sample	Weight Before (g)	Weight After (g)	Weight Loss (%)	After Flame (sec)	Floor Flame (sec)
1	6.8	6.2	8.8%	0	0
2	6.8	6.2	8.8%	0	0
3	7	6.1	12.9%	0	0
4	7.2	5.5	23.6%	0	0
5	7.7	6.1	20.8%	0	0
6	7.8	6.8	12.8%	0	0
7	7.7	6.1	20.8%	0	0
8	7.7	7.1	7.8%	0	0
9	7.7	6.2	19.5%	0	0
10	7.7	6.4	16.9%	0	0
Average	7.41	6.27	15.3%	0	0
Standard deviation of % Weight Loss			5.8%		
Mean Value plus 3 standard deviations			33%		

SECTION 9

CONCLUSION

The specimens met the specified performance requirements.



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R1

Date: 09/16/19

Revision Date: 04/23/24

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	09/16/19	N/A	Original Report Issue
1	04/23/24	2 & 4	Corrected Spelling of Company Name and Updated Product Name

MOLO DESIGN LTD.

TEST REPORT

SCOPE OF WORK

NFPA 701-2019, METHOD 1 - STANDARD METHODS OF FIRE TESTS FOR FLAME
PROPAGATION OF TEXTILES WITH AREAL DENSITIES LESS THAN OR EQUAL TO 700 G/M²

REPORT NUMBER

K1072.02-121-24-R0

TEST DATE(S)

08/29/19

ISSUE DATE

09/06/19

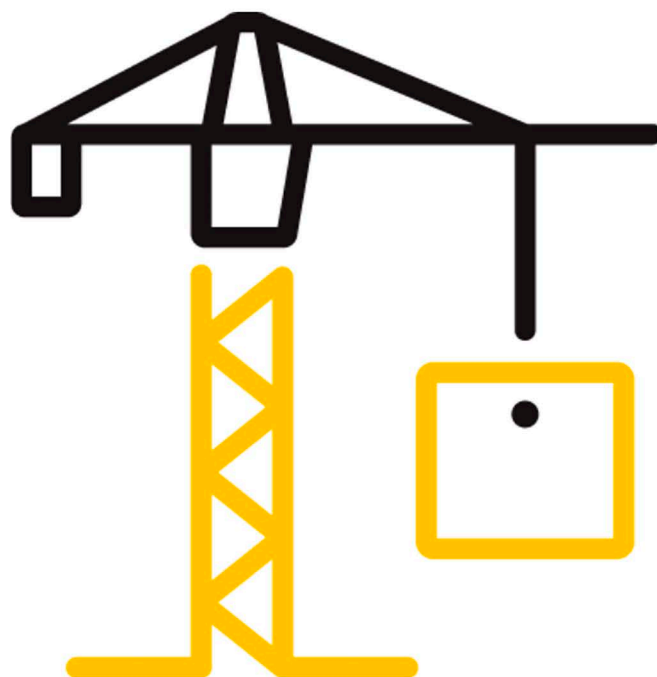
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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-4098 (02/27/19)

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TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R0

Date: 09/06/19

REPORT ISSUED TO

MOLO DESIGN LTD.

1470 Venables St.

Vancouver, British Columbia V5L 2G7

Canada

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Momo Design Ltd., Vancouver, British Columbia to perform testing in accordance with NFPA 701-2019, Method 1 Standard Methods of Fire Tests for Flame Propagation of Textiles with areal densities less than or equal to 700 g/m², on their FR treated Natural Kraft Dupont® Tyvek™. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek testing facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. 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, or other pertinent project documentation, will be retained for the entire test record retention period.

SECTION 2

SUMMARY OF TEST RESULTS

No specimen had an average weight loss greater than forty percent (40%). The percent weight loss each individual specimen did not exceed the mean percent weight loss value. There was no flaming on floor of apparatus lasting longer than two seconds.

The specimens met the specified performance requirements.

For INTERTEK B&C:

COMPLETED BY:	Scott Gingrich
	Technician Team Lead –
TITLE:	Fire Testing
SIGNATURE:	
	Digitally Signed by: Scott Gingrich
DATE:	09/06/19

REVIEWED BY:	Ethan Grove
TITLE:	Manager – Fire Testing
SIGNATURE:	
	Digitally Signed by: Ethan Grove
DATE:	09/06/19

SDG:ddr

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TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R0

Date: 09/06/19

SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

NFPA 701-2019, *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films Method 1*

SECTION 4

MATERIAL SOURCE

Test samples were provided by the client.

SECTION 5

EQUIPMENT

EQUIPMENT		
ASSET No.:	DESCRIPTION:	CALIBRATION DUE:
65100	Stopwatch -	08/07/2020
64989	Gauge	10/02/2019
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Report No.: K1072.02-121-24-R0

Date: 09/06/19

SECTION 6

TEST PROCEDURE

Testing was conducted in accordance with Chapters 4-10; Flame Test Procedures for Test Method 1.

SECTION 7

TEST SPECIMEN DESCRIPTION

10 samples of FR treated Kraft Dupont® Tyvek™ was tested. The material has a color of Brown and had an areal density of less than 700 g/m². The specimens were 6 in. wide x 16 in. long.

SECTION 8

TEST RESULTS

Sample	Weight Before (g)	Weight After (g)	Weight Loss (%)	After Flame (sec)	Floor Flame (sec)
1	6.8	6.2	8.8%	0	0
2	6.8	6.2	8.8%	0	0
3	7	6.1	12.9%	0	0
4	7.2	5.5	23.6%	0	0
5	7.7	6.1	20.8%	0	0
6	7.8	6.8	12.8%	0	0
7	7.7	6.1	20.8%	0	0
8	7.7	7.1	7.8%	0	0
9	7.7	6.2	19.5%	0	0
10	7.7	6.4	16.9%	0	0
Average	7.41	6.27	15.3%	0	0
Standard deviation of % Weight Loss			5.8%		
Mean Value plus 3 standard deviations			33%		

SECTION 9

CONCLUSION

The specimens met the specified performance requirements.



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TEST REPORT FOR CUSTOMER NAME

Report No.: K1072.02-121-24-R0

Date: 09/06/19

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	09/06/19	N/A	Original Report Issue