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RENDERED TO

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PRODUCT EVALUATED: "Kraft Paper Softblocks/Softwalls"
EVALUATION PROPERTY: Flame Resistance

Report of Testing "Kraft Paper Softblocks/Softwalls" for compliance with the applicable requirements of the following criteria: NFPA 701, Standard for Flame Methods for Flame-Propagation of Fabrics and Films, 2004 Edition.

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2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for molo design, ltd., on "kraft paper softblocks/softwalls", to determine whether the submitted samples would meet the small and large flame requirements of NFPA 701, *Standard for Flame Methods for Flame-Propagation of Fabrics and Films, 2004 Edition*.

This evaluation began June 25, 2007 and was completed June 26, 2007.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample material was received at the Evaluation Center on June 13 and 26, 2007.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

3.2.1. Material Specifications

➤ *Small Flame Test*

A total of ten samples of "kraft paper softblocks/softwalls" were submitted, each measuring 400mm in length and 150mm in width. The samples consisted of a standard kraft paper, with a weight of 150g/m² (150 grams per square meter), and were beige in colour.

➤ *Large Flame Test*

A total of ten samples of "kraft paper softblocks/softwalls" were submitted, each measuring 1200mm in length and 125mm in width. The samples consisted of a standard kraft paper, with a weight of 150g/m² (150 grams per square meter), and were beige in colour.

3.2.2. Sample Mounting

➤ *Small Flame Tests*

The test samples were placed in the specimen holder, with clamps along each edge of the sample, leaving the ends free and exposing a surface area 150mm wide by 400mm long. The holder was then placed in the test apparatus.

➤ *Large Flame Test*

The test samples were placed in the specimen holder, with clamps along each edge of the sample, leaving the ends free and exposing a surface area 125mm wide by 1200mm long. The holder was then placed in the test apparatus.

The samples were placed in a conditioning room at 20°C for a minimum of 24 hours and then tested in accordance with the test standard.

4 Testing and Evaluation Methods

4.1. SMALL FLAME TEST

Once the specimen holder was in place, it was held 25mm away from the centre of the opening of a Bunsen burner. The burner was supported in such a way that it was in a horizontal position. The burner supplied a flame 100mm long, with the intake air supply shut off. The flame impinged the sample for a period of 45 seconds.

Ten trial runs were conducted for the small flame test.

4.2. LARGE FLAME TEST

Once the specimen holder was in place, it was held 100mm above the centre of the opening of a Bunsen burner. The burner was supported in such a way that it was 25° from the vertical. The burner supplied a flame 280mm long, with the intake air supply shut off. The flame impinged the sample for a period of 120 seconds.

Ten trial runs were conducted for the large flame test.

4.3. ACCEPTANCE CRITERIA

A sample will meet the requirements of NFPA 701 if the following criteria are met:

- *Small Flame Samples*
 - Portions or residues from the test specimen which break or drip from the sample during the test shall not continue to burn for more than two seconds on the floor of the test apparatus.
 - The average weight loss of the 10 specimens in a sample shall be 40% or less.
- *Large Flame Samples*
 - Portions or residues from the test specimen which break or drip from the sample during the test shall not continue to burn for more than two seconds on the floor of the test apparatus.
 - The char length of any single flat specimen shall not exceed 435mm.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

5.1.1. Small Flame Test Results

Sample No.	Loss of Mass (%)	After Burn (sec.)
1	4.2	0
2	3.2	0
3	3.9	0
4	4.2	0
5	3.2	0
6	4.3	0
7	3.1	0
8	5.5	0
9	4.4	0
10	5.1	0
Average	4.1	0

5.1.2. Additional Flaming

No portions of or residues from the test specimens fell and burned on the floor of the test apparatus.

5.1.3. Large Flame Test Results

Sample No.	After Burn (sec.)	Damaged Length (mm)
1	0	280
2	0	300
3	0	285
4	0	280
5	0	305
6	0	300
7	0	285
8	0	295
9	0	290
10	0	300
Average	0	292

5.1.4. Additional Flaming

No portions of or residues from the test specimens fell and burned on the floor of the test apparatus.

6 Conclusion

The submitted samples of "kraft paper softblocks/softwalls" therefore met the requirements of NFPA 701, *Standard for Flame Methods for Flame-Propagation of Fabrics and Films 2004 Edition*, small flame test and large flame test.

"Kraft Paper Softblocks/Softwalls"	Loss of Mass (%)	Burning on Floor of Apparatus
Small Flame Samples	4.1	No

"Kraft Paper Softblocks/Softwalls"	Char Length (mm)	Burning on Floor of Apparatus
Large Flame Samples	292	No

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

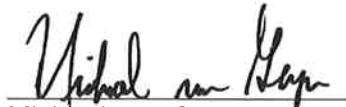
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