

### LEARNING RESOURCES / EDUCATIONAL INSIGHTS

380 N FAIRWAY DRIVE, VERNON HILLS IL 60061, 152 W. WALNUT STREET, SUITE 201, GARDENA CA 90248

The following sample(s) was / were submitted and identified on behalf of the client as:

**Sample Description:** LIGHT FILTERS FOR EVERY SEASON

**Type/Style:** EI-1233

**Country of Origin:** CHINA

**Country of Destination:** US, CANADA

### Test Requested:

1. Determine the flame resistance in accordance with test method 1 of NFPA 701:2015 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
2. CAN/ULC-S109-14 STANDARD METHOD FOR FLAME TESTS OF FLAME-RESISTANT FABRICS AND FILMS.

**Test Results:** -- See attached sheet --

### Test Period:

Sample Receiving Date : JUL.01, 2015

Test Performing Date : JUL.01, 2015 TO JUL.03, 2015

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji Branch



Allen Zou  
Technical Manager



SGS-CSTC Standards Technical Service Co., Ltd.  
Anji Branch Plant and Goods Laboratory

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## Test Report

No. AJHG1507005352FB

Date: JUL.06, 2015

Page 2 of 10

### 1. NFPA 701:2015

#### I. Test Conducted

This test was conducted in accordance with test method 1 of NFPA 701:2015 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

#### II. Details of tested sample

Materials / Color	Fabric / Sample A: Green; Sample B: Blue + White; Sample C: Blue + White	
Area density	Sample A: 112g/m <sup>2</sup> ; Sample B: 110g/m <sup>2</sup> ; Sample C: 111g/m <sup>2</sup>	
Products configuration	Single Layer	
Size of sample *	150mm × 400mm	10pcs

\* With the length parallel to the lengthwise direction of the material

#### III. Conditioning

Prior to testing, the sample was conditioned,

at least 30 minutes at 105°C±3°C (220°F±5°F)

#### IV. Test results

##### Sample A

Specimen No	Mass of specimen Before test (g)	Mass of specimen After test (g)	Mass loss (Percent)	After flame time (s)	Burning time on floor (s)
1	6.81	5.22	23.35	0	0
2	7.04	5.32	24.43	0	0
3	6.95	5.29	23.88	0	0
4	6.88	5.31	22.82	0	0
5	7.00	5.27	24.71	0	0
6	6.93	5.25	24.24	0	0
7	6.85	5.30	22.63	0	0
8	6.93	5.28	23.81	0	0
9	6.85	5.21	23.94	0	0
10	7.03	5.30	24.61	0	0
Mean	6.93	5.28	23.84	0	0

SD =0.72      3SD =2.16      Mean + 3SD =26.00

SD – Standards deviation

To be continued....



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**Sample B**

Specimen No	Mass of specimen Before test (g)	Mass of specimen After test (g)	Mass loss (Percent)	After flame time (s)	Burning time on floor (s)
1	6.73	5.23	22.29	0	0
2	6.99	5.30	24.18	0	0
3	7.03	5.71	18.78	0	0
4	6.83	5.29	22.55	0	0
5	7.00	5.53	21.00	0	0
6	6.82	5.31	22.14	0	0
7	6.76	5.28	21.89	0	0
8	6.93	5.36	22.66	0	0
9	6.90	5.42	21.45	0	0
10	6.86	5.24	23.62	0	0
Mean	6.89	5.37	22.06	0	0

SD =1.49      3SD =4.47      Mean + 3SD =26.53

SD – Standards deviation

**Sample C**

Specimen No	Mass of specimen Before test (g)	Mass of specimen After test (g)	Mass loss (Percent)	After flame time (s)	Burning time on floor (s)
1	7.02	6.18	11.97	0	0
2	6.94	5.73	17.44	0	0
3	6.95	5.86	15.68	0	0
4	6.98	5.91	15.33	0	0
5	7.01	6.11	12.84	0	0
6	7.00	5.99	14.43	0	0
7	6.98	5.82	16.62	0	0
8	6.92	5.71	17.49	0	0
9	6.97	5.85	16.07	0	0
10	7.03	6.13	12.80	0	0
Mean	6.98	5.93	15.07	0	0

SD =1.98      3SD =5.94      Mean + 3SD =21.01

SD – Standards deviation

To be continued....



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**Observations:**

Vigorousness of burning	No
Material molten dripping	Yes
Odor smoke	Yes

**Criteria for test method 1 (Chapter 10):**

1. Fragments or residues of specimens that fall to the floor of the test chamber shall not continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimen.
2. The average weight loss of the 10 specimen in a sample shall be 40 percent or less.
3. No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.
4. When a retest is required, no individual specimen's percent mass loss in the second set of specimens shall deviate from the mean value by more than 3 standard deviations calculated for the second set.
5. When a sample does not demonstrate passing performance in accordance with all of the conditions indicated above, the material shall be recorded as having failed Test Method 1.

**Sub-Conclusion:** The tested samples A, B and C "As received" **meet** the requirements of Test Method 1 of NFPA 701:2010.

**2. CAN/ULC-S109-14**

**Details of product**

Sample description / Color	Fabric / Sample A: Green; Sample B: Blue + White; Sample C: Blue + White
Products configuration	Single layer
Density	Sample A: 112g/m <sup>2</sup> ; Sample B: 110g/m <sup>2</sup> ; Sample C: 111g/m <sup>2</sup>
Specimen size	250mm×90mm; 1200mm×625mm;1200mm×125mm

**Sample A**

**1) Small-Flame Test**

**I. Test conducted**

This test is conducted according to CAN/ULC-S109-14 Flame Tests of Flame-Resistant Fabrics and Films clause 4.3 SMALL-FLAME TEST.

Conditioning: Prior to testing, the sample was conditioned half an hour at 105°C±3°C.

To be continued...



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**II. Test Results**

Specimen No.		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time (fall to the floor)
Lengthwise	1	0	0	108	0
	2	0	0	132	0
	3	0	0	128	0
	4	0	0	130	0
	5	0	0	116	0
Widthwise	6	0	0	145	0
	7	0	0	114	0
	8	0	0	128	0
	9	0	0	119	0
	10	0	0	130	0
Average		0	0	125	0

**Comments:** [  ] Meets, [  ] Does not meet

**2) Large-Flame Test**

**I. Test conducted**

This test is conducted according to CAN/ULC-S109-14 Flame Tests of Flame-Resistant Fabrics and Films, clause 4.4 LARGE-FLAME TEST.

Conditioning: Prior to testing, the sample was conditioned half an hour at 105°C±3°C.

**II. Test Results**

Specimen No. (Single-sheet specimens)		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	0	235	0
	2	0	0	250	0
	3	0	0	246	0
	4	0	0	249	0
	5	0	0	238	0
Widthwise	6	0	0	236	0
	7	0	0	270	0
	8	0	0	257	0
	9	0	0	266	0
	10	0	0	253	0
Average		0	0	250	0

To be continued...



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Specimen No. (Folded specimens)		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	0	240	0
	2	0	0	253	0
Widthwise	3	0	0	275	0
	4	0	0	260	0
Average		0	0	257	0

**Comments:** [  ] Meets, [  ] Does not meet

### Sample B

#### 1) Small-Flame Test

Specimen No.		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time (fall to the floor)
Lengthwise	1	0	0	138	0
	2	0	0	135	0
	3	0	0	139	0
	4	0	0	130	0
	5	0	0	142	0
Widthwise	6	0	0	133	0
	7	0	0	126	0
	8	0	0	137	0
	9	0	0	150	0
	10	0	0	139	0
Average		0	0	137	0

**Comments:** [  ] Meets, [  ] Does not meet

To be continued...



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### 2) Large-Flame Test

Specimen No. (Single-sheet specimens)	After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	239	0
	2	0	233	0
	3	0	229	0
	4	0	232	0
	5	0	238	0
Widthwise	6	0	226	0
	7	0	227	0
	8	0	229	0
	9	0	224	0
	10	0	235	0
Average	0	0	231	0

Specimen No. (Folded specimens)	After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	275	0
	2	0	252	0
Widthwise	3	0	259	0
	4	0	266	0
Average	0	0	263	0

**Comments:** [  ] Meets, [  ] Does not meet

To be continued...



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### Sample C

#### 1) Small-Flame Test

Specimen No.		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time (fall to the floor)
Lengthwise	1	0	0	135	0
	2	0	0	133	0
	3	0	0	135	0
	4	0	0	129	0
	5	0	0	134	0
Widthwise	6	0	0	127	0
	7	0	0	126	0
	8	0	0	129	0
	9	0	0	125	0
	10	0	0	122	0
Average		0	0	130	0

**Comments:** [  ] Meets, [  ] Does not meet

#### 2) Large-Flame Test

Specimen No. (Single-sheet specimens)		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	0	215	0
	2	0	0	235	0
	3	0	0	219	0
	4	0	0	229	0
	5	0	0	223	0
Widthwise	6	0	0	245	0
	7	0	0	233	0
	8	0	0	242	0
	9	0	0	237	0
	10	0	0	235	0
Average		0	0	231	0

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Specimen No. (Folded specimens)		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time(s) (falls to the floor)
Lengthwise	1	0	0	208	0
	2	0	0	230	0
Widthwise	3	0	0	225	0
	4	0	0	217	0
Average		0	0	220	0

**Comments:** [  ] Meets, [  ] Does not meet

### Small flame test performance requirements (Clause 6.1&6.2):

- 1). Portions or residues of the material which break or drip from the test specimens shall not continue to flame for more than 2 s on the floor of the test cabinet.
- 2). The vertical spread of flame and afterglow (smouldering combustion) on the material as indicated by the damaged length shall not exceed 165 mm of maximum average damaged length (10 specimens), and 190 mm of maximum damaged length for any specimen.
- 3). Fabrics or films for interior uses shall comply with the foregoing requirements after being subjected to ten cycles of the specific type or types of cleaning recommended by the manufacturer. Material indicated as being suitable for laundering or dry cleaning shall be subjected to the applicable requirements in Subsection 7.2, Laundering, and Subsection 7.3, Dry Cleaning.
- 4). Fabrics or films intended for exposure to the weather shall comply with the foregoing requirements after being subjected to the requirements in Subsection 7.4, Water Leaching, Subsection 7.5, Scrubbing, and Subsection 7.6, Accelerated Weathering.

### Large-flame test performance requirements (Clause 6.1&6.3):

- 1). Portions or residues of the material which break or drip from the test specimens shall not continue to flame for more than 2 s on the floor beneath the test enclosure.
- 2). The surface spread of flame in folded specimens shall not exceed 635 mm above the tip of the test flame, but the afterglow may spread in the folds. This surface spread shall be measured as the distance from the tip of the test flame to a horizontal line above which all material is sound and in apparently original condition, except for possible smoke deposits.
- 3). The vertical spread of flame and afterglow (smouldering combustion) in single-sheet specimens, as indicated by the damaged length above the tip of the test flame, shall not exceed 250 mm. The damaged length is the vertical distance from the tip of the test flame to a horizontal line above which all material is sound and in apparently original condition, except for possible smoke deposits.
- 4). Fabrics or films for interior uses shall comply with the foregoing requirements after being subjected to ten cycles of the specific type or types of cleaning recommended by the manufacturer. Material indicated as being suitable for laundering or dry cleaning shall be subjected to the applicable requirements in Subsection 7.2, Laundering, and Subsection 7.3, Dry Cleaning.
- 5). Fabrics or films intended for exposure to the weather shall comply with the foregoing requirements after being subjected to the requirements in Subsection 7.4, Water Leaching, Subsection 7.5, Scrubbing, and Subsection 7.6, Accelerated Weathering.

To be continued...



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**Sub-Conclusion:** The test samples A, B and C **meet** the requirements of CAN/ULC-S109-14 in "As Received".

**STATEMENTS:**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

**Photo Appendix:**



Sample A

Sample B

Sample C

SGS authenticate the photo on original report only  
 \*\*\* End of Report \*\*\*



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