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NFPA 701 - 1999
"STANDARD METHODS OF FIRE TESTS FOR
FLAME-RESISTANT TEXTILES AND FILMS"
(TEST METHOD 1)

TEST REPORT
CONSISTING OF 4 PAGES
SwRI PROJECT NO: 01.03048.01.312

MATERIAL ID: SKV #31875 11506
TEST DATE: SEPTEMBER 26, 2000
REPORT DATE: OCTOBER 5, 2000

Submitted by:

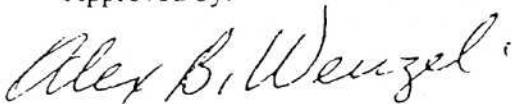


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INTRODUCTION

This report presents the results of NFPA 701 (Test Method 1) on a specimen submitted by the Client, tested at Southwest Research Institute's (SwRI's) Department of Fire Technology, located in San Antonio, Texas. The test is conducted in accordance with the procedure outlined in "Standard Methods of Fire Tests for Flame-Resistant Textiles and Films (NFPA 701 Test Method 1, 1999)".

This method is intended for use in determining the resistance of fabrics and films to propagation of flame beyond the area exposed to the source of ignition. This method shall apply to single layer fabric and multi layer curtain and drapery assemblies while suspended in a vertical configuration. However, where durability to cleaning or weathering is claimed, the fabric or material shall be tested for flame resistance as produced and after being subjected to the applicable cleaning or laundering procedure. The results of this test do not necessarily indicate whether the material tested will resist the propagation of flame under severe exposure or when used in a manner that differs substantially from the test conditions.

Ten individual test specimens shall be cut from a single piece of the material to be evaluated to a size of 150 mm x 400 mm (5.90 in. x 15.75 in.), with the length parallel to the lengthwise direction of the material.

Each specimen shall be numbered and weighed to the nearest 0.1 g before conditioning. The specimens are then conditioned in accordance to the standard and tested after conditioning.

Each specimen tested is mounted on the support hanger in the test cabinet. The burner is placed 25 mm away from the specimen and with the center axis of the burner horizontal and in line with the bottom of the center seam of the specimen and maintained for a 45 second exposure time.

The after flame time of the specimen (time of burning of the specimen after the gas flow is turned off) and the time of burning of material that falls to the bottom of the chamber shall be measured and recorded.

The requirements for acceptance of the NFPA 701 Test Method 1 are:

1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing Test 1.
2. Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing this test.
3. Where the percent weight loss of any individual specimen in the second set of specimens exceeds the mean value of the second set plus three standard deviations calculated for the second set, the material shall be recorded as failing this test.
4. Where the specimens do not demonstrate performance in accordance with any of the conditions indicated in the above, the material shall be recorded as passing this test and shall be designated as flame resistant.

The results apply specifically to the specimens tested, in the manner tested, and not to the entire production of these or similar materials, nor to the performance when used in combination with other materials.

NFPA 701 TEST REPORT
(TEST METHOD 1)

CLIENT: No-Burn, Inc.
SWRI PROJECT NO: 01.03048.01.312

MATERIAL DESCRIPTION

Material ID:* SKV #31875 11506
 Trade Name.* Wrinklese Style #1264 (received on June 7, 2000)
 Description:* W 100% cotton
 Color:* Navy blue (Nav 2085)
 Nominal Thickness: 0.011 in.
 Size: 152.4 mm wide x 393.7 mm long (6.0 in. x 15.5 in.)

* From Client's material description

Preparation: The specimens were placed in a forced-draft oven and dried for at least 30 minutes at 105°C ± 3°C (220°F ± 5°F).

TEST DATA

Specimen No.	Char Length (mm)	Afterflame Time (min:sec)	Burning On Floor (min:sec)	Pass/Fail
1	11.0	None	None	Pass
2	5.0	None	None	Pass
3	8.5	None	None	Pass
4	6.5	None	None	Pass
5	8.0	None	None	Pass
6	6.5	0:01	None	Pass
7	8.5	None	None	Pass
8	7.5	None	None	Pass
9	9.0	0:01	None	Pass
10	7.5	None	None	Pass

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SPECIMEN WEIGHT:	<u>BEFORE</u> <u>EXPOSURE</u>	<u>AFTER</u> <u>EXPOSURE</u>	<u>% WEIGHT</u> <u>LOSS</u>
Specimen No. 1:	13.83 g	11.18 g	19.1 %
Specimen No. 2:	14.30 g	11.30 g	20.9 %
Specimen No. 3:	13.53 g	11.00 g	18.7 %
Specimen No. 4:	13.60 g	12.42 g	8.7 %
Specimen No. 5:	13.09 g	10.46 g	20.1 %
Specimen No. 6:	13.13 g	11.25 g	14.3 %
Specimen No. 7:	13.04 g	11.03 g	15.4 %
Specimen No. 8:	13.26 g	11.13 g	16.1 %
Specimen No. 9:	13.74 g	11.02 g	19.8 %
Specimen No. 10:	13.05 g	11.42 g	12.5 %

OBSERVATIONS

There was ignition and charring in all runs.

CONCLUSIONS

The material identified as SKV #31875 11506, passed the requirements established when tested in accordance with the NFPA 701 Test Method 1.