

**FIRE Retardants Inc.**  
*The Decision You Make May Save A Life!*

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EST. 1860

**United States Testing Company, Inc.**

**California Division**

5555 TELEGRAPH ROAD • LOS ANGELES, CALIFORNIA 90040 • 213/723-7181 & 722-0608

**REPORT OF TESTING**

**CLIENT:**

NUMBER  
LA 02154-2  
6/24/80

**SUBJECT:-** One (1) sample polyester fabric submitted and identified by Client as:  
(b) Polyester fabric with BURN BARRIER™ – C.P. applied by C. Talcott Co.

**REFERENCE**

Client's confirmation dated June 6, 1980 to Mr. Ted Narahara.

**TEST REQUEST AND METHODS:**

1. Flammability per Federal Test Method Standard No. 191, Method 5903.2 for Flame Resistance of Cloth; Vertical.

Conditioning: 70+5°F and 65±5% relative humidity  
Flame applied: 12 seconds  
Flame temperature: 1700±20°F (Gas Mixture B)

2. Flammability per NFPA NO. 701, Standard Methods of Fire Tests for Flame Resistant Textiles and Films, Small Test Procedure. The fabrics were tested in their original (as received) condition only.

Conditioning: 140±5°F - 1-1/2 hrs. prior to test  
Flame time: 12 seconds  
Flame temperature: 1660±20°F

3. Flammability per Boston Fire Dept., Test 11.2, Vertical Flaming Ignition Test for Treated Fabrics and Plastic Coated Fabrics.

Conditioning: Ambient  
Flame applied: 10 seconds  
Flame temperature: 2200+20°F

SIGNED FOR THE COMPANY

BY C. Macaluso

*K. M. Karr*

K. Karr  
Tech

Pg, 1 6  
ml

Laboratories in: New York • Chicago • Los Angeles • Houston • Tulsa • Memphis • Reading • Richland

THIS REPORT APPLIES ONLY TO THE STANDARDS ON PROCEDURES IDENTIFIED AND TO THE SAMPLE(S) TESTED. THE TEST RESULTS ARE NOT NECESSARILY INDICATIVE OR REPRESENTATIVE OF THE QUALITIES OF THE LOT FROM WHICH THE SAMPLE WAS TAKEN OR OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. NOTHING CONTAINED IN THIS REPORT SHALL MEAN THAT UNITED STATES TESTING COMPANY, INC. CONDUCTS ANY QUALITY CONTROL PROGRAM FOR THE CLIENT TO WHOM THIS TEST REPORT IS ISSUED. UNLESS SPECIFICALLY SPECIFIED. OUR REPORTS AND LETTERS ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEY AND THE NAME OF THE UNITED STATES TESTING COMPANY, INC. OR ITS SEALS OR INSIGNIA, ARE NOT TO BE USED UNDER ANY CIRCUMSTANCES.



**TEST REQUEST AND METHODS (Cont.)**

4. Flammability per City of New York Board of Standards and Appeals;  
Cal. No. 294-40-SR.  
Conditioning: 70±5°F and 40±5% relative humidity  
Flame applied: 12 seconds  
Flame temperature: 1700±20°F (Gas Mixture B)
5. Flammability per California Administrative Code, Title 19, Public Safety Article 3,  
Section 1237, Small Scale vertical testing. Sample tested in original  
(as received condition only).  
Conditioning: One (1) hour at 140°F  
Flame applied: 12 seconds  
Flame temperature: 1660±20°F
6. Flammability per FAA, FAR Air Worthiness. Standards Part 25, Section 25.853,  
para. (h) and applicable Appendix F, para. (d), vertical Test.  
Conditioning: 70±5°F and 50±5% relative humidity  
Flame applied: 12 seconds  
Flame temperature: 1660±20°F



**RESULTS:**

**FTMS 191/5903.2 — Flame Resistance of Cloth Vertical**

	<u>Afterflame, sec.</u>	<u>Afterglow, sec.</u>	<u>Char Length, inches</u>
Warp:	0	0	2.1
	0	0	3.7
	0	0	4.7
	0	0	5.5
	<u>0</u>	<u>0</u>	<u>3.5</u>
Avg.	0	0	3.9
Filling:	0	0	5.1
	0	0	4.8
	0.3	0	4.7
	0	0	5.0
	<u>0</u>	<u>0</u>	<u>5.5</u>
Avg.	0.1	0	5.0

**NFPA NO 701**

	<u>Afterflame, sec.</u>	<u>Char Length, inches</u>	<u>Dropoff, sec.</u>
Warp:	0	5.7	0
	0	4.7	0
	0	5.5	0
	0	4.9	0
	<u>0</u>	<u>5.4</u>	<u>N*</u>
Avg.	0	5.2	0
Filling:	1.1	4.3	0
	0	4.9	N*
	0	5.5	0
	0.4	4.2	0
	<u>0</u>	<u>3.6</u>	<u>0</u>
Avg.	0.3	4.5	0

\*Legend: N - No drips, residue or flaming dropoff observed.



**RESULTS (Cont.)**

**Requirements:**

1. Afterflame shall not exceed two (2) seconds.
2. Any residue falling to the bottom of the test chamber shall not continue to flame.
3. Char length
  - Average, maximum - 5-1/2 inches
  - Individual specimen, maximum - 6-1/2 inches

**Comments:**

The submitted sample was observed to drip residue which extinguished while dropping to the chamber floor. The sample meets the requirements of this test.

**Boston Fire Dept Test 11.2**

<b><u>Afterflame, sec.</u></b>	<b><u>Afterglow, sec.</u></b>	<b><u>Dropoff</u></b>
0	0	Yes*
0	0	Yes
0	0	Yes
0	0	Yes
<u>0</u>	<u>0</u>	<u>Yes</u>
Avg. 0	0	Yes

\*Legend: Yes – Flaming dropoff observed.

**Requirement:**

- Afterflame - 2 seconds maximum for any specimen.
- Afterglow - 40 seconds maximum for any specimen.
- No specimen shall produce any “faming dropoff” during or after ignition.



**RESULTS (Cont.)**

**New York Board of Standards and Appeals**

<u>Flashing</u>	<u>Afterflame, sec.</u>	<u>Afterglow sec.</u>
NF*	0	0
NF	0	0
<u>NF</u>	<u>0</u>	<u>0</u>
Avg. NF	0	0

\*Legend: NF - No flashing was observed at any time during administration of test.

**Requirements:**

- Flashing – No flashing permitted.
- Afterflame – Average 3 seconds maximum.
- Duration of Glow - – Average 20 seconds maximum. Glow confined to charred area may be disregarded.

**Comments:**

The submitted sample meets the requirements of this test.

**California Administrative Code Title 19**

<u>After flame, sec</u>	<u>Char Length inches</u>
Warp: 0	5.8
0	4.2
<u>0</u>	<u>4.8</u>
Avg. 0	5.3
Filling: 1.2	5.2
0	4.1
<u>0</u>	<u>3.5</u>
Avg. 0.4	4.3

**Requirements:**

- After-flame – Two (2) seconds maximum.
- Char Length – Average 3.5 inches.
- Maximum for any specimen – 6 inches.