



# **FIRE** Retardants Inc.™

*The Decision You Make May Save A Life!*

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EST. 1880

## United States Testing Company, Inc.

### California Division

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### REPORT OF TEST

Rendered by Manufacturer and Released to:

Fire Retardants, Inc.

123 Columbia Court North

Chaska, MN 55318

FLAME SPREAD CLASSIFICATION  
SMOKE AND FUEL CONTRIBUTION

100% NYLON FABRIC TREATED  
WITH BURN BARRIER U

August 12, 1980

TEST REPORT NO. LA 02428

SIGNED FOR THE COMPANY

BY *James H. Heywood*  
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ml

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REQUIREMENT

Perform standard flame spread, smoke density and fuel contributed classification tests on the wallcovering fabric supplied by the Client in accordance with ASTM Designation E-84, "Standard Method of Test for Surface Burning Characteristics of Building Materials."

SAMPLE IDENTIFICATION

The sample(s) tested was submitted and identified by the Client as:

Wallcovering Fabric:

100% Nylon Treated with

BURN BARRIER U, applied by the

C. Talcott Company



PREPARATION AND CONDITIONING

The wallcovering sample was cut into sections 20 inches wide by 8 feet long and adhered to slabs of 1/4 inch asbestos-cement board with Vinylgrip 729, heavy duty wallcovering adhesive. The sample slabs were placed in the conditioning room (maintained at a dry bulb temperature of  $73.4 \pm 5^{\circ}\text{F}$  and a relative humidity of  $50 \pm 5\%$  and allowed to come to equilibrium.

TEST PROCEDURE

The sample was tested following calibration and preheating. The evaluation was performed in conformance with the specifications set forth in ASTM Designation E-84, "Standard Method of Test for Surface Burning Characteristics of Building Materials", both as to equipment and test procedure. The foregoing test procedure is comparable to UL 723, NFPA No. 255 and UBC No. 42-1.



SUMMARY OF TEST RESULTS

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>Sample Identification</u>	<u>Flame Spread</u>		<u>Fuel Contribution</u>	<u>Smoke Density</u>
	<u>(a)</u>	<u>(b)*</u>		
Wallcovering Fabric: 100% Nylon treated with BURN BARRIER U	10	10	0	0

In order to obtain the Flame Spread Classification, the above results should be compared to the following table.

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200
D	---	201 through 500
E	---	Over 500

BUILDING CODES CITED

1. National Fire Protection Association, NFPA No. 101, "Life Safety Code".
2. Uniform Building Code, 1979 edition, Part VIII, "Fire Resistive Standard for Fire Protection", Chapter 42 - Interior Wall and Ceiling Finish, Sections 4201-4203.



UNITED STATES TESTING COMPANY, INC.

LA 02428

ASTM E-84 TEST DATA SHEET

CLIENT: Rendered by Manufacturer and Released to Fire Retardants Inc. Date: 8/7/80

SAMPLE: Wallcovering Fabric: 100% Nylon treated with BURN BARRIER U

THICKNESS: 0.008" nominal

FLAME SPREAD

Ignition 1:17 minutes

Flame Front 2.0 ft. max. Time 10 minutes

Calculation (a) 0.515 x 16.0 = 8.2

\*Calculation (b) 5.128 x 2.0 = 10.3

Note:

There are some code authorities and regulatory agencies that continue to reference the older versions of the Flame Spread Standards. The ASTM E84-75, marked with an asterisk, is the method previously used to calculate the flame spread value and is shown here for information only.

SUMMARY

(a)	FLAME SPREAD by: ASTM E84-79	10
(b)*	FLAME SPREAD by: ASTM E84-75	10
	Fuel Contribution:	0
	Smoke Density:	0

OBSERVATIONS

Melting and dripping noted upon sample ignition. Maximum flame front advance reached 2 feet during the ten minute test period. There was no afterburning at test conclusion.