



**Retardants Inc.**<sup>TM</sup>

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EST. 1880

**United States Testing Company, Inc.**

**California Division**

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FROM SAN FRANCISCO—415/928-5855

**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**

**WALLCOVERING FABRIC  
POLYESTER WITH BURN BARRIER CP**

June 30, 1980

*P. McCullen*  
P. McCullen  
Test Technician

TEST REPORT NO. LA 02153-3

SIGNED FOR THE COMPANY

BY *James H. Heywood*  
James H. Heywood  
Test Engineer



REFERENCE

Order for Test dated June 6, 1980.

Test witnessed by Mr. Ted Narahara.

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  
Polyester with BURN BARRIER CP  
Treated by C.Talcott Company,  
San Leandro, California



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:  
Polyester with BURN BARRIER CP

5	5	0	5
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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 02153-3

ASTM E-84 TEST DATA SHEET

CLIENT: Rendered by Manufacturer and Released to Fire Retardants Inc. Date: 6/23/80

SAMPLE: Wallcovering Fabric: Polyester with BURN BARRIER CP

THICKNESS: 0.015" nom.

FLAME SPREAD

Ignition 1:42 minutes

Flame Front 1.0 ft. max. Time 10 minutes

Calculation (a) 0.515 x 6.8 = 3.5

\*Calculation (b) 5.128 x 1.0 = 5.1

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	5
(b)*	FLAME SPREAD by: ASTM E84-75	5
	Fuel Contribution:	0
	Smoke Density:	5

OBSERVATIONS

Slight melting noted upon sample ignition. Maximum flame front reached 1.0 foot during the test. There was neither afterburning nor glowing at test conclusion.