

Received: 11/02/2011 Completed: 11/03/2011 Letter: N rb P.O.#: Test Report #: 2-89864-0-

Client's Identification Printed Flexible Substrate (ColorKoteTC and Program Materials). Width: 84". Weight: 21oz/yd<sup>2</sup>. End Use: Signs and Awnings with Backlit Graphics Application. [Specimens cut and marked by client]

Tested For: **Kyle Pellet** Key Test: NFPA 701-2010 TM#2 Flat 510  
 Arlon, Inc.  
 2811 S. Harbor Blvd Tel: 1-(714)-540-2811 Ext: 415  
 Santa Ana, CA 92704 Fax: 1-(714)-431-4305

PC: 1H

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2010 Edition - Test Method #2 - Flat Sheet Specimens

SPECIMEN CONFIGURATION:  Single Layer;  Multi Layer

RESULTS REPORTED:  Initially  After 72 hours water leaching  
 After 3 dry cleanings  After 100 hours accelerated weathering  
 After 5 launderings @ 160°F

RESULTS:

Length Specimen #	Afterflame (seconds)	Drip Burn (seconds)	Char Length (mm)
1	0	0	180
2	0	0	202
3	0	0	151
4	0	0	162
5	0	0	173
6	0	0	201
7	0	0	198
8	0	0	182
9	0	0	147
10	0	0	193

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 840 g/m<sup>2</sup>

FAILURE CRITERIA: For each individual specimen --

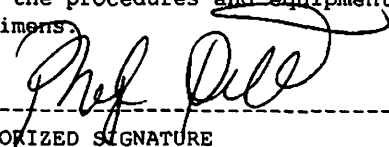
Afterflame	Drip Burn	Char Length
Exceeds 2.0 seconds	Exceeds 2.0 seconds	Exceeds 435 mm (17.1")

RETEST PROVISION: Test 5 additional specimens if only 1 specimen fails.

CONCLUSION: Based on the above Results and Failure Criteria, the item tested:

Passes;  Fails;  Requires testing of 5 additional specimens

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 701 - 2010 Edition Test Method #2 Flat Sheet Specimens

  
 AUTHORIZED SIGNATURE

NOV 03 2011

THE GOVMARK ORGANIZATION, INC. / ec

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**MS. PHYLLIS PETTIT**

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Arlon, Inc. 2811 S. Harbor Blvd Santa Ana, CA 92704			Tel: 1-(714)-540-2811		Ext: 415	
			Fax: 1-(714)-431-4305			

PRECONDITIONING:     1 hr @ 220°F (Standard)  
                            24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

REMARKS:  
None.

CONVERSION FACTORS:  
 mm ÷ 25.4 = inches  
 g/m<sup>2</sup> ÷ 28.35 x .835 = oz/yd<sup>2</sup>

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**Intertek ETL Semko  
NFPA 701 Method 2  
Test Results**  
*(This is not a test report)*

**CLIENT:** Arlon Signtech  
**PROJECT NUMBER:** 3134238SAT-001  
**DATE:** 10/10/2007  
**SPECIMEN I.D.:** Colorkote TC Flexface

**TEST CRITERIA**

No specimen shall continue flaming for more than two seconds. Length of char shall not exceed 17.1 inches from the bottom edge of the specimen. No flaming on floor of apparatus is allowed for longer than two seconds.

Specimen #	Afterflame Duration (sec.)	Floor Flaming (sec.)	Char Length (in.)
1	0	0	8.56
2	0	0	6.75
3	0	0	5.96
4	0	0	6.25
5	0	0	6.56
6	0	0	6.37
7	0	0	6.75
8	0	0	6.63
9	0	0	6.06
10	0	0	6.75
Average	0	0	6.46

**THE SPECIMEN PASSED THE TEST CRITERIA.**



PRECISION TESTING LABORATORIES, INC.

313 Hill Avenue; Nashville, TN 37210-4711  
 Phone 615-254-3401 Fax 615-254-3488  
 www.precisiontesting.com

Laboratory Report No. 77304  
 20-Jun-07

Mr. Syamphay Chanhmisay  
 Arlon SignTech, LTD.  
 4669 Highway 90 West  
 San Antonio, TX 78237

CC: Mr. Jatin Mody

PO# 31376

Item: One (1) material

Identification: ColorKote TC Flexface (blue/white)

Purpose: Flammability, NFPA 701-2004, Test I

Test	Specimen Results	Average
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**Flammability, NFPA-701-2004**

**Test I**

<u>% Weight Loss</u>	1.3	0.6	0.9	1.8	0.7	0.7	0.9	0.9	1.3	4.0	1.3
<u>Residue Burn (seconds)</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>Standard Deviation</u>	1.01										
<u>3 Standard Deviations</u>	3.04										
<u>Retest Required</u>	No										

**Retest Requirement**

9.1.4 When the percent mass loss of any individual specimen exceeds the mean value plus 3 standard deviations, the test shall be repeated on another sample of 10 specimens.

**Flame Propagation Performance Requirement**

- 10.1.1.1 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 specimens.
- 10.1.1.2 The average weight loss of the 10 specimens in a sample shall be 40 percent or less.
- 10.1.1.3 No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.
- 10.1.1.4 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.

Sample conforms with NFPA 701, Test I requirements.

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CALIFORNIA DEPARTMENT OF FORESTRY and FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL

**REGISTERED FLAME RESISTANT PRODUCT**

Product:

FLEXFACE

Registration No.

F-66001

Product Marketed By:

ARLON ECP/SIGNTECH  
6110 RITTIMAN ROAD  
SAN ANTONIO, TX 78218

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code.

The scope of the approved use of this product is provided in the current edition of the **CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS** published by the California State Fire Marshal.



Deputy State Fire Marshal

Expire: 6/30/2012