



Received:06/19/2014	Completed:07/01/2014	Letter: C1	CT	P.O.#:	Test Report #:	3-02779-1-
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<b>Client's Identification</b>	Style: Architec 400 Knitted Mono/Mono HDPE. End Use: Large Commercial Tension Membrane Structures and Architectural Shade Sails.
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<b>Tested For: Steve Morenberg</b> Poly Fab USA LLC 1601 N. Sepulveda Blvd., #392 Manhattan Beach, CA 90266	<b>Key Test: ASTM E 84 (BLDG)</b>	1185
	<b>Tel: 1-(440)-503-9056</b>	<b>Ext:</b>
	<b>Fax: 1-(310)-626-9639</b>	

BLDG (IBC): LE 2012; R 06/12; V 6/12 PC: ME /jd  
ASTM E84: LE 2012; R 06/12; V 06/12

TEST PERFORMED: ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials

REFERENCE: Comparable to: UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials

APPROXIMATE THICKNESS OF SPECIMEN (as measured by Govmark): 0.079"

PRODUCT CATEGORY:

- Textile Type Product
- Vinyl Type Product
- Other than Textile Type or Vinyl Type Product: \_\_\_\_\_

-- See Page 3 for "DISCUSSION" pertaining to Room Corner Fire Tests. --

SPECIMEN MOUNTING:

- Self Supporting: The test specimen, the face of which was 23" ± 1" x 24', was such that it remained in position in the tunnel during the fire test, and no additional support was required.
- Adhered to IRC: The test specimen was bonded to three 1/4" IRC (Inorganic Reinforced Cement) boards (a cement asbestos substitute) to form a test specimen the face of which was 23" ± 1" x 24'.
- Adhered to Gypsum: The test specimen was adhered to 5/8" thick Type X gypsum board, to form a test specimen the face of which was 23" ± 1" x 24'.
- Unadhered: The 23" ± 1" x 24' specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods.
- Other: \_\_\_\_\_

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REMARKS: None.

RESULTS:

Flame Spread Index: 20  
 Smoke Developed: 35

CONCLUSION: Based on the above Results and Code Classification System the item tested is assigned as:

- Class I or A rating
- Class II or B rating
- Class III or C rating
- Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement

DATA SUMMARY:

Time to Ignition: 00.15 minutes  
 Maximum Flame Spread "Distance": 03.80 feet  
 Maximum Flame Spread "Time": 01.27 minutes

CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

BUILDING CODE CITATION FOR THE CLASSIFICATION SCHEME:

- (1) 2012 edition, NFPA 101 Life Safety Code, para. 10.2.3.4
- (2) 2012 edition, NFPA 5000 Building Construction & Safety Code, para. 10.3.2
- (3) 2012 edition, International Building Code, para. 803.1.1

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by ASTM E 84.

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 AUTHORIZED SIGNATURE  
 THE GOVMARK ORGANIZATION, INC. CT /pm /tm

**MS. PHYLLIS PETTIT**

JUL 03 2014  
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DISCUSSION: Most building codes will accept the ASTM E 84 test when the product is used in a sprinklered area.

If the product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Other wall coverings such as leather, cork, etc. should be tested by NFPA 286.

Certain products are known to give off excessive amounts of heat. A good example is polyurethane foam which is used in cushioned walls.

Such excessive heat producing products should be tested by NFPA 286 even in sprinklered areas.

This discussion is an opinion only. The reader is directed to the actual Building Codes and the Authority Having Jurisdiction.

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