

Received: 04/03/2009	Completed: 04/09/2009	Letter: M	rb	P.O.#:	Test Report #:	2-78029-0-
Client's Identification	Style: Comtex. Content: HDPE. Width: 150". Finish: None. Weight: 10 oz/sq.yd. End Use: Sun Shades/Tension Membranes					
Tested For: Steve Morenberg	Poly Fab USA LLC 1601 N. Sepulveda Blvd., #392 Manhattan Beach, CA 90266				Key Test: NFPA 701-2004 TM#2 Flat	310
				Tel: 1-(440)-503-9056	Ext:	
				Fax: 1-(310)-626-9639		

PC:1H

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2004 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	260
2	0	0	270
3	0	0	260
4	0	0	250
5	0	0	280
6	0	0	310
7	0	0	320
8	0	0	330
9	0	0	340
10	0	0	330

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 397 g/m²

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 - 2004 Edition Test Method #2 Flat Sheet Specimens.

Heather E. Roberts

AUTHORIZED SIGNATURE

THE GOVMARK ORGANIZATION, INC. /rb

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MS. HEATHER E. ROBERTS
APR 10 2009

Received: 04/03/2009	Completed: 04/09/2009	Letter: M	rb	P.O.#:	Test Report #:	2-78029-0-
Client's Identification	Style: Comtex. Content: HDPE. Width: 150". Finish: None. Weight: 10 oz/sq.yd. End Use: Sun Shades/Tension Membranes					
Tested For: Steve Morenberg	Poly Fab USA LLC 1601 N. Sepulveda Blvd., #392 Manhattan Beach, CA 90266				Key Test: NFPA 701-2004 TM#2 Flat	310
				Tel: 1-(440)-503-9056	Ext:	
				Fax: 1-(310)-626-9639		

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/m² ÷ 28.35 x .835 = oz/yd²

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Received: 04/08/2009	Completed: 04/17/2009	Letter: H	rb	P.O.#:	Test Report #:	2-78102-0-
Client's Identification	Comtex. A Superior Fire Rated Knitted HDPE Shade Fabric Designed For Large Tension Membrane Structures And Architectural Shade Sails. 10 oz/sq.yd					
Tested For: Steve Morenberg	Poly Fab USA LLC 1601 N. Sepulveda Blvd., #392 Manhattan Beach, CA 90266				Key Test: ASTM E 84 (BLDG)	825
				Tel: 1-(440)-503-9056	Ext:	
				Fax: 1-(310)-626-9639		

PC: ME /jd

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

PRODUCT CATEGORY: Textile Type Product
 Vinyl Type Product
 Other than Textile Type or Vinyl Type Product:

* Note: Textile or expanded vinyl wallcoverings classified by this procedure are limited to use in sprinklered areas in certain public occupancies. If textile or expanded vinyl wallcoverings are used in non-sprinklered areas, a room/corner fire test is mandated, such as NFPA 265 for textiles and NFPA 286 for expanded vinyls.

NFPA 286 test method standard applies not only to expanded vinyls, but also to all non-textile products. Therefore, it should be considered for all interior finish applications in non-sprinklered areas.

SPECIMEN MOUNTING:

- Adhered: 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'.
- 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.

RESULTS:

Flame Spread Index: 25
Smoke Developed: 35

REMARKS: None.

Received: 04/08/2009	Completed: 04/17/2009	Letter: H	rb	P.O.#:	Test Report #:	2-78102-0-
Client's Identification	Comtex. A Superior Fire Rated Knitted HDPE Shade Fabric Designed For Large Tension Membrane Structures And Architectural Shade Sails. 10 oz/sq.yd					
Tested For:	Steve Morenberg	Key Test: ASTM E 84 (BLDG)			825	
	Poly Fab USA LLC 1601 N. Sepulveda Blvd., #392 Manhattan Beach, CA 90266	Tel: 1-(440)-503-9056		Ext:		
		Fax: 1-(310)-626-9639				

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
- Unrated

DATA SUMMARY:

Time to Ignition: 0.08 minutes
Maximum Flame Spread "Distance": 5.82 feet
Maximum Flame Spread "Time": 1.70 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) 2006 edition, NFPA 101 Life Lifesty Code, para. 10.2.3.4
- (2) 2006 edition, NFPA 5000 Building Construction & Safety Code, para. 10.3.2
- (3) 2006 edition, International Building Code, para. 803.1

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

Heather E. Robertson

AUTHORIZED SIGNATURE

THE GOVMARK ORGANIZATION, INC. CT 1/3b/mg

HEATHER ROBERTSON

APR 21 2009

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