

96-D Allen Boulevard Farmingdale, New York 11735-5626 USA Tel. +1 (631) 293-8944 Fax +1 (631) 293-8956 e-mail: info@govmark.com

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Received: 12/11/2009 | Completed: 12/14/2009 | Letter: Q rb P.O.#: Test Report #: 2-81398-0-Client's Style: Lotus. Content: 100% Polyester. Identification Tested For: John Hearn Key Test: NFPA 701-2004 TM#1 180 Interspec PO Box 705 Tel: 1-(732)-938-4114 Ext: Allenwood, NJ 08720 Fax: 1-(732)-938-9083

PC: 0.5H

Flame Projects

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2004 Edition - Test Method #1

- 2004 Edition - Test Method #1

PRODUCT CONFIGURATION: [x] Single Layer; [] Multi Layer

RESULTS REPORTED: [x] Initially; [] After 3 dry cleanings; [] After 5 launderings @ 160°F

RESULTS:

Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)	Above Top Of Specimen (yes/no)
1	0	0	11.0	
2	ŏ	O	11.8	No
2	0	0	15.5	No
3	0	0	19.1	No
4	0	0	11.0	No
5	0	0	27.4	No
6	0	0	25.5	No
7	0	0	24.1	No
8	0	0	20.0	No
9	0	0	12.7	No
10	0	0	16.8	No
İ				Available (SA)

Mean: 0 Mean: 18.4

STATISTICAL VALUES: SD = 5.8 3 SD = 17.5 Mean + 3 SD = 35.9

ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 176 g/m²

PRECONDITIONING: [x] 0.5 hr @ 220°F (Standard)

[] 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR: $g/m^2 \div 28.35 \times .835 = oz/yd^2$

NOTE:

- 1. All specimens prepared in the length direction.
- 2. See addendum for individual specimen weights.

REMARKS: None.

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					ı ag	50 2
Received: 12/11/2009	Completed: 12/14/2009 Le	etter: Q	rb P.O. #:	Test Repor	rt #: 2	-81398-0-
Client's Style: Identification	Lotus. Content: 100% Poly	ester.		1		
Tested For: John He	arn		Key	Test: NFPA 701-2004	ΓM#1	180
Interspec PO Box 7	705			Tal. 1 (722) 029 4114	F4-	
	d, NJ 08720			Tel: 1-(732)-938-4114 Fax: 1-(732)-938-9083		
					<u> </u>	
FAILURE CRITERIA:	As cited by NFPA 70	1 - 2004 Edi	tion Test Metho	od #1 (see Comments	on page 3)	
		Weight La	ss (percent)			
	Flaming Drip					
Afterflame	(Mean)	Mean	Individu	al Specimen		
*	Exceeds 2 seconds					
	ased on the Results					
cited by NFPA	701 - 2004 Edition T	est Method #	1, the item tes	sted:		
<pre>[x] Passes;</pre>	[] Fails; [] Requ	10.7		-		
	i.e.	only one ir	dividual specin	nen failure was not	ed	
		V= V				
REVISED FAILURE C	RITERIA (see Comment	s on page 3)	:			
		Weight Loss				
Afterflame	Flaming Drip (Mean)		Ind. Spec.	Flame Height (Individual Speci	men)	
*						
•	Exceeds 2 seconds	Exceeds 40%	Exceeds 50%	Projects above to of specimen	p	
				•		
CONCLUSION: B	ased on the Results	on page 1 ar	d the above Rev	rised Failure Crite	ria,	
[x] Passes;	[] Fails; [] Require.	_		aal specimens Nen failure was not	ed	
		0.1.2	arvidudi opecin	ion rarrate was not		
* Afterflame is r	equired to be record	ed: however.	the NFPA docum	ent does not facto	or it into the	Failure
Criteria reportin	g requirements. It	should be no	ted that excess	ive afterflames (1	5 seconds or	
could be cause to	r rejection by local	fire author	ities performin	g "match" field te	sts.	
OPPETETONETON T						
with the procedure	certify that the ab es and equipment spe	ove results cified by NE	were obtained a PA 701 - 2004 E	itter testing speci dition Test Method	mens in accord	dance tional
recording of flam	e height.					
Leather	E. Sahreta	~				
AUTHORIZED SIGNAT						
	R ROBERTSON					
		(F	age 2 of 3)			
and the said of	3 2000					



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Received: 12/11/200	9 Completed: 12/14/2009	Letter: Q	rb	P.O.#:	Test Report #:	2-81398-	-0-
Client's Style	: Lotus. Content: 100% P	olyester.					
Tested For: John Hearn			Key Test	: NFPA 701-2004 TM#1	1	80	
Interspec							
PO Box 705		Tel	: 1-(732)-938-4114	Ext:			
Allenv	ood, NJ 08720				: 1-(732)-938-9083		

COMMENTS:

The Govmark Org., Inc. has determined to establish failure criteria over and above the criteria spelled out in the NFPA document. The rationale for the "revised" criteria is as follows:

Weight Loss - Individual Specimen Failure:

The NFPA 701 document, as written, provides for a statistical calculation which provides for retest and a potential failure if any individual value exceeds the mean by three standard deviations. Govmark is of the opinion that this cannot mathematically occur, i.e. no individual result is mathematically capable of exceeding the mean plus three standard deviations. Therefore, Govmark has established 50% as the absolute number for individual specimen criteria.

Individual Specimen - Flame Projects Above Top of Specimen:

When NFPA introduced the weight loss criteria, this was hailed as a more objective measure of product performance over previous editions, which relied on visual measurements of fire degradation. Unforeseen were those products which are composed of finishes over substantially non burning substrates. Intense flaming of the finishes occurs without substantially reducing the total weight of the specimen that was tested. It is believed that similar behavior of the intensely burning surface finishes on products made from such material could result in the ignition of nearby combustibles.

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96D Allen Blvd. Farmingdale, NY 11735

TEL: (516) 293-8944 FAX: (516) 293-8956

Client Name : Interspec
Addendum to Test Report # : 2-81398-0-Q
Test : : NFPA 701

Specimen #	Weight Before Test (g)	Weight After Test (g)	Percent Weight Loss
1	11.00	9.70	11.8
2	11.00	9.30	15.5
3	11.00	8.90	19.1
4	10.90	9.70	11.0
5	10.60	7.70	27.4
6	11.00	8.20	25.5
7	11.20	8.50	24.1
8	11.00	8.80	20.0
9	10.20	8.90	12.7
10	11.30	9.40	16.8

Mean Percent Weight Loss : 18.4 Standard Deviation : 5.8

3 x Standard Deviation : 17.5

Mean + 3 x Standard Deviation : 35.9