

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: 12/27/2007 Completed: 01/01/2008 Letter: H1 P.O.#: 0000039368 2-71351-1rb Test Report #: Client's IFR Designer Vinyl/Mylar Identification Tested For: Bob Bertrand/Yesenia Vargas **Key Test:** NFPA 701-2004 TM#1 165 Rose Brand **Tel:** 1-(800)-223-1624 4 Emerson Lane Ext: 115 Secaucus, NJ 07094 Fax: 1-(201)-809-1851

PC: 0.5H

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

- 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:				Flame Projects Above Top
Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)	Of Specimen (yes/no)
1	0.0	0.0	3.1	NO
2	0.0	0.0	3.1	NO
3	0.0	0.0	3.0	NO
4	0.0	0.0	3.1	NO
5	0.0	0.0	3.1	NO
6	0.0	0.0	8.8	NO
7	0.0	0.0	11.8	NO
8	0.0	0.0	5.9	NO
9	0.0	0.0	5.9	NO
10	0.0	0.0	5.9	ИО
		ands took took their tild note one can tile		

0.0

STATISTICAL VALUES: SD = 3.0 3 SD = 8.9 Mean + 3 SD = 14.3

Mean:

ABBREVIATIONS USED: SD = Standard deviation.

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 50 g/m^2

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

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

Mean:

5.4

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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Received: 12/27/2007 C	ompleted:01/01/2008 Le	tter: H1	rb	P.O. #: 0000039	368	Test Report #:	2-71351-1-
Client's IFR Des	signer Vinyl/Mylar						
	trand/Yesenia Vargas			Key '	Γest: NFP	A 701-2004 TM#1	165
Rose Bran 4 Emersor Secaucus,					•	00)-223-1624 01)-809-1851	Ext: 115
FAILURE CRITERIA:	As cited by NFPA 70	01 - 2004 E	ditio	on Test Metho	d #1 (se	e Comments on p	page 3)
		Weight Loss (percent)					
Afterflame	Flaming Drip (Mean)	Mean		Individu	al Speci	.men	
*	Exceeds 2 seconds						
cited by NFPA	ased on the Results 701 - 2004 Edition T [] Fails; [] Require. RITERIA (see Comment	est Method aires testi only one	#1, .ng o: indi	the item tes	ted: al speci		
		Weight Loss Flame Height					
Afterflame	Flaming Drip (Mean)	Mean	;		(Indiv	deignt Ldual Specimen)	
*	Exceeds 2 seconds					ts above top cimen	
<pre>the item teste [x] Passes; * Afterflame is r Criteria reportin</pre>	[] Fails; [] Require. equired to be record requirements. It	uires testi only one ded; howeve should be	ng o indi	f 10 additior vidual specim he NFPA docum d that excess	al spector fails ent does ive afte	imens are was noted s not factor it erflames (15 se	into the Failure conds or more)
CERTIFICATION: I with the procedur recording of flam		pove result ecified by	s we	re obtained a	fter te	sting specimens	in accordance
Healther	E. Roberts	/ ~					
AUTHORIZED SIGNAT THE GOVMARK ORGAN			(Pa	ge 2 of 3)			
MS. HEATHE	ER ROBERTSON						



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

Client Name : Rose Brand Addendum to Test Report # : 2-71351-1 Test : NFPA 701

Specimen #	Weight Before Test (g)	Weight After Test (g)	Percent Weight Loss
1	3.20	3.10	3.1
2	3.20	3.10	3.1
3	3.30	3.20	3.0
4	3.20	3.10	3.1
5	3.20	3.10	3.1
6	3.40	3.10	8.8
7	3.40	3.00	11.8
8	3.40	3.20	5.9
9	3.40	3.20	5.9
10	3.40	3.20	5.9

Mean Percent Weight Loss: 5.4Standard Deviation: 3.03 x Standard Deviation: 8.9

Mean + 3 x Standard Deviation : 14.3