



Received:03/01/2018	Completed:03/06/2018	Letter: S	BG	P.O.#:	Test Report #:	3-24825-0-
Client's Identification	Style: VorTex Soft Stretch. Composition: Polyester. Product End Use: Indoor Banners.					
Tested For: <b>Kylie Schleicher</b> Ultraflex Systems Inc. 1578 Sussex Tpk., Bldg. #4 Randolph, NJ 07869			Key Test: NFPA 701-2015 TM#1			250
			Tel: 1-(973)-627-8608			Ext:
			Fax: 1-( )- -			
LE:2015 NE:2019 V:11/17 NTR 04/16 PC: 0.5H DL/jd						
TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2015 Edition - Test Method #1						
PRODUCT CONFIGURATION: <input checked="" type="checkbox"/> Single Layer; <input type="checkbox"/> Multi Layer						
RESULTS REPORTED: <input checked="" type="checkbox"/> Initially; <input type="checkbox"/> After 3 dry cleanings; <input type="checkbox"/> After 5 launderings @ 160°F						
RESULTS:						
Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)			
1	0	0	25.4			
2	0	0	27.5			
3	0	0	26.1			
4	0	0	25.4			
5	0	0	23.5			
6	0	0	29.4			
7	0	0	25.0			
8	0	0	27.9			
9	0	0	25.4			
10	0	0	26.9			
Mean:		0	Mean:	26.2		
STATISTICAL VALUES: SD = 1.7 3 SD = 5.1 Mean + 3 SD = 31.4						
ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.						
APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 223 g/m²						
PRECONDITIONING: <input checked="" type="checkbox"/> 0.5 hr @ 220°F (Standard) <input type="checkbox"/> 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)						
CONVERSION FACTOR: g/m² ÷ 28.35 x .835 = oz/yd²						
NOTE:						
1. All specimens prepared in the length direction. 2. See addendum for individual specimen weights.						
(Page 1 of 3)						



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REMARKS:

- ☒ Flames did not project above the top of the specimen.  
☐ Flames projected above the top of the specimen; Specimen #'s \_\_\_\_\_  
☐ Other: \_\_\_\_\_

FAILURE CRITERIA: As cited by NFPA 701 - 2015 Edition Test Method #1

Afterflame	Flaming Drip (Mean)	Weight Loss (percent)	
		Mean	Individual Specimen
*	Exceeds 2 seconds	Exceeds 40%	Exceeds Mean + 3 SD**

CONCLUSION: Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2015 Edition Test Method #1, the item tested:

- ☒ Passes; ☐ Fails; ☐ Requires testing of 10 additional specimens  
i.e. only one individual specimen failure was noted

\* Afterflame is required to be recorded; however, the NFPA document does not factor it into the Failure Criteria reporting requirements. It should be noted that excessive afterflames could be cause for rejection by local fire authorities performing "match" field tests.

\*\* See "Discussion" on Page 3.

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

Phyllis Pettit

MAR 14 2018

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AUTHORIZED SIGNATURE

GOVMARK

/ac ipm



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**\*\* DISCUSSION:**

Weight Loss - Individual Specimen Failure:

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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, in effect, Govmark is of the opinion that this "individual specimen criteria" has no meaning, since it cannot possibly result in a nonconformance.

Client Name : Ultraflex Systems  
Addendum to Test Report # : 3-24825-0  
Test : NFPA 701

Specimen #	Weight Before Test ( g )	Weight After Test ( g )	Percent Weight Loss
1	13.40	10.00	25.4
2	13.80	10.00	27.5
3	13.80	10.20	26.1
4	13.40	10.00	25.4
5	13.60	10.40	23.5
6	13.60	9.60	29.4
7	13.60	10.20	25.0
8	13.60	9.80	27.9
9	13.40	10.00	25.4
10	13.40	9.80	26.9

Mean Percent Weight Loss : 26.2  
Standard Deviation : 1.7  
3 x Standard Deviation : 5.1  
Mean + 3 x Standard Deviation : 31.4