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Page 1

Received:03/01/2018 Completed:03/06/2018 Letter: R BG P.O.#: Test Report #: 3-24824-0-

Client's Identification Style: VorTex Grand Display D223. Composition: Polyester. Product End Use: Indoor Banners.

Tested For: **Kylie Schleicher** Key Test: NFPA 701-2015 TM#1 250
Ultraflex Systems Inc.
1578 Sussex Tpk., Bldg. #4
Randolph, NJ 07869
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: ☒ Single Layer; ☐ Multi Layer

RESULTS REPORTED: ☒ Initially; ☐ After 3 dry cleanings; ☐ After 5 launderings @ 160°F

RESULTS:

Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)
1	0	0	31.8
2	0	0	24.2
3	0	0	31.8
4	0	0	23.1
5	0	0	7.5
6	0	0	16.9
7	0	0	24.2
8	0	0	27.7
9	0	0	30.3
10	0	0	25.4
Mean:		0	Mean: 24.3

STATISTICAL VALUES: SD = 7.5 3 SD = 22.4 Mean + 3 SD = 46.7

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

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 218 g/m²

PRECONDITIONING: ☒ 0.5 hr @ 220°F (Standard)
☐ 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.



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Tested For: Kylie Schleicher 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-()- -		

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**

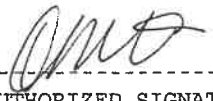
CONCLUSION: Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2015 Edition Test Method #1, the item tested:

- ☒ 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.



AUTHORIZED SIGNATURE
GOVMARK
/ac /pm

Phyllis Pettit

MAR 14 2018



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Page 3

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**** DISCUSSION:**

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, 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 # : 3-24824-0
Test : NFPA 701

<u>Specimen #</u>	<u>Weight Before Test (g)</u>	<u>Weight After Test (g)</u>	<u>Percent Weight Loss</u>
1	13.20	9.00	31.8
2	13.20	10.00	24.2
3	13.20	9.00	31.8
4	13.00	10.00	23.1
5	13.40	12.40	7.5
6	13.00	10.80	16.9
7	13.20	10.00	24.2
8	13.00	9.40	27.7
9	13.20	9.20	30.3
10	13.40	10.00	25.4

Mean Percent Weight Loss : 24.3
Standard Deviation : 7.5
3 x Standard Deviation : 22.4
Mean + 3 x Standard Deviation : 46.7

MAR 14 2018