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Received: 10/05/2016	Completed: 10/11/2016	Letter: I	BG	P.O.#:	Test Report #:	3-15733-0-
Client's Identification	Style: Twilight. Content: 59% Polyester FR, 41% Polyester. Weight: App. 360 gr/m <sup>2</sup> . Product End Use: Curtain.					
Tested For: Lone Henriksen Kvadrat A/S Lundbergsvej 10 8400 Ebeltoft Denmark			Key Test: NFPA 701-2015 TM#1/ACT			275
			Tel: 011 45 89 53 18 66		Ext:	
			Fax: 011 45 89 53 18 00			

Test Category: NFPA 701 TM1      Specifier: ACT      NTR 1/16      LE 2015; V 08/15  
 PC: 0.5H      dl/SM

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2015 Edition - Test Method #1 --

As cited by ACT Voluntary Performance Guidelines (January 2015)

PRODUCT CATEGORY: Drapery

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	26.7
2	0	0	19.6
3	0	0	18.3
4	0	0	20.6
5	0	0	21.2
6	0	0	22.3
7	0	0	23.3
8	0	0	24.0
9	0	0	22.1
10	0	0	22.3
	Mean:	0	Mean: 22.0

STATISTICAL VALUES: SD = 2.4      3 SD = 7.1      Mean + 3 SD = 29.2

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

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 337 g/m<sup>2</sup>

PRECONDITIONING:  0.5 hr @ 220°F (Standard)  
 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR: g/m<sup>2</sup> ÷ 28.35 x 0.835 = oz/yd<sup>2</sup>



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NOTE:

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

REMARKS:

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

FAILURE CRITERIA:

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, 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 (15 seconds or more) 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.

Ms. Phyllis Pettit

OCT 17 2016

AUTHORIZED SIGNATURE  
 GOVMARK  
 /pm /mo



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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 : Kvadrat A/S  
Addendum to Test Report # : 3-15733-0  
Test : NFPA 701

<u>Specimen #</u>	<u>Weight Before Test ( g )</u>	<u>Weight After Test ( g )</u>	<u>Percent Weight Loss</u>
1	20.20	14.80	26.7
2	20.40	16.40	19.6
3	20.80	17.00	18.3
4	20.40	16.20	20.6
5	20.80	16.40	21.2
6	20.60	16.00	22.3
7	20.60	15.80	23.3
8	20.80	15.80	24.0
9	20.80	16.20	22.1
10	20.60	16.00	22.3

Mean Percent Weight Loss : 22.0  
Standard Deviation : 2.4  
3 x Standard Deviation : 7.1  
Mean + 3 x Standard Deviation : 29.2

OCT 17 2016