



GOVMARK

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Received: 07/12/2018 Completed: 07/23/2018 Letter: H11 JB P.O.#: 4500027812 Test Report #: 3-27317-0-11

Client's Identification Item: 1015-06181. SPS-0152. Date of Mfg.: 6/28/18. Product End Use: Upholstery.

Tested For: Kristi Rygh Key Test: BS EN 1021-1: 2014 275  
Uniroyal Engineered Products, LLC  
501 South Water Street Tel: 1-(608)-873-6631 Ext:  
Stoughton, WI 53589 Fax: 1-( )- -

LE 2014; V 11/17 PC: 24H SM/jd

TEST PERFORMED: British Standard BS EN 1021-1: 2014  
Furniture - Assessment of the Ignitability of Upholstered Furniture, Part 1

IGNITION SOURCE: Smouldering Cigarette

TEST ITEM COMPOSITE:

Client's Cover Fabric: (see "Client's Identification" section above)

Suggested Filling Material:

- Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
- Flame retardant polyurethane foam, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>), Code Red II 35
- Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Sandel Style 12701-14502 fire blocking material (4.7 ± 0.5 oz/yd<sup>2</sup>)

COVER FABRIC WATER SOAKED PRIOR TO TESTING IN ACCORDANCE WITH ANNEX D:  Yes;  No

PRECONDITIONING: 24 hours at 23°C ± 2°C (73.4°F ± 2°F) and 50% ± 5% RH

BRIEF DESCRIPTION OF TEST: Test cushions are placed in a test frame to form a mockup of an upholstered chair. A lighted cigarette is placed in the crevice formed by the seat and back cushion. Test observations are made and results are recorded.

DETAILED RESULTS

	Initial Test	Repeat Test
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All smouldering (heat, smoke, or glowing) ceased after [mm:ss]:

11:30 08:16

Furthest extent of smouldering/flaming --

Left of ignition source [mm]:

0 0

Right of ignition source [mm]:

0 0

Forward of ignition source [mm]:

0 0



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SUMMARY RESULTS

IGNITION CRITERIA:	Initial Test (yes/no)	Repeat Test (yes/no)
Smouldering --		
Unsafe escalating combustion (3.1a):	No	No
Test assembly consumed (3.1b):	No	No
Smoulders to extremities (3.1c): [Left 190mm, Right 190mm, Forward 225mm]	No	No
Smoulders through thickness (3.1c):	No	No
Smoulders more than 1 hour (3.1d):	No	No
Smoulders, where upon final examination, evidence of active smouldering was apparent after the test specimen was dismantled and examined internally (3.1e, 9.3):	No	No
Flaming --		
Occurrence of flames (3.2):	No	No

SUMMARY RESULTS EXPLAINED: If "Yes" is entered for any category, the report must conclude that ignition did occur.

ABBREVIATIONS WHICH MAY BE USED:

- N/O = Not observed.
- NT = Not tested.
- EC = Escalating combustion (unsafe); test extinguished by technician at time noted.

COMMENTS: [ ] Replacement cigarette(s) not needed as all cigarettes burned their complete length.  
[x] Replacement cigarette used on: [x] initial test; [x] repeat test



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CONCLUSION: The above Results indicate that:



- Ignition Criteria did not occur (favourable)
- Ignition Criteria did occur (unfavourable)

Note: The subject test measures whether or not ignition occurs. The codes speak in terms of ignition resistance. Therefore, the conclusion "Ignition Criteria did not occur" is a favourable conclusion; and "Ignition Criteria did occur" is not a favourable conclusion.

PROVISO: The test conducted herein is based on a prototype composite using a candidate upholstery covering fabric and a standard filling material. The results displayed by the candidate upholstery fabric may differ when used in an actual item of upholstered furniture, since other variables may affect the fire performance properties. Other variables may consist of: different filling materials; fire blocking materials; furniture geometry; and other furniture components.

The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

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

  
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AUTHORIZED SIGNATURE  
SGS GOVMARK  
/ jab 

Phyllis Pettit  
AUG 02 2018



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Received:07/12/2018 Completed:07/23/2018 Letter: H12 JB P.O.#: 4500027812 Test Report #: 3-27317-0-12

Client's Identification Item: 1015-06181. SPS-0152. Date of Mfg.: 6/28/18. Product End Use: Upholstery.

Tested For: **Kristi Rygh** Key Test: BS EN 1021-2: 2014 375  
Uniroyal Engineered Products, LLC  
501 South Water Street  
Stoughton, WI 53589  
Tel: 1-(608)-873-6631 Ext:  
Fax: 1-( ) -

LE 2014; V 11/17 PC: 24H SM/jd

TEST PERFORMED: British Standard BS EN 1021-2: 2014  
Furniture - Assessment of the Ignitability of Upholstered Furniture, Part 2

IGNITION SOURCE:

Match flame equivalent (15 seconds butane flame)

TEST ITEM COMPOSITE:

Client's Cover Fabric: (see "Client's Identification" section above)

Suggested Filling Material:

- Non flame retardant flexible polyether foam 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
- Flame retardant polyurethane foam, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>), Code Red II 35
- Non flame retardant flexible polyether foam 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Sandel Style 12701-14502 fire blocking material (4.7 ± 0.5 oz/yd<sup>2</sup>)

COVER FABRIC WATER SOAKED PRIOR TO TESTING IN ACCORDANCE WITH ANNEX D:  Yes  
 No

PRECONDITIONING:

24 hours at 23°C ± 2°C (73.4 ± 2°C) and 50% ± 5% RH

BRIEF DESCRIPTION OF TEST:

Test cushions are placed in a test frame to form a mockup of an upholstered chair. A tube burner, fueled by butane, is placed in the crevice formed by the seat and back cushion so that the butane flame burns upwardly on the seat back for a period of 15 seconds. Test observations are made and results are recorded.



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Tested For: **Kristi Rygh** Key Test: BS EN 1021-2: 2014 375  
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DETAILED RESULTS \*

		Initial Test	Repeat Test #1	Repeat Test #2
Cover charred and ignited within	[mm:ss]:	00:06	00:08	00:07
Cover split/melted open after	[mm:ss]:	N/O	N/O	N/O
Filling material ignited after	[mm:ss]:	N/O	N/O	N/O
All flaming ceased after	[mm:ss]:	00:16	00:16	00:16
All smouldering (heat, smoke, or glowing) ceased after	[mm:ss]:	00:30	00:29	00:32

Furthest extent of smouldering --

Left of ignition source	[mm]:	2	1	3
Right of ignition source	[mm]:	2	2	2
Forward of ignition source	[mm]:	2	1	1

Furthest extent of Flaming --

Left of ignition source	[mm]:	2	1	3
Right of ignition source	[mm]:	2	2	2
Forward of ignition source	[mm]:	2	1	1

(\* Timing of values begins with the application of the igniting flame.)



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SUMMARY RESULTS

IGNITION CRITERIA:	Initial Test (yes/no)	Repeat Test #1 (yes/no)	Repeat Test #2 (yes/no)
-----			
Smouldering --			
Unsafe escalating combustion (3.1a):	No	No	No
Test assembly consumed (3.1b):	No	No	No
Smoulders to extremities (3.1c): [Dimensions: Left 229mm; Right 229mm; Forward 229mm]	No	No	No
Smoulders through thickness (3.1c):	No	No	No
Smoulders more than 1 hour (3.1d):	No	No	No
Smoulders, where upon final examination, evidence of active smouldering was apparent after the test specimen was dismantled and examined internally (3.1e, 9.3):	No	No	No
Flaming --			
Unsafe escalating combustion (3.2a):	No	No	No
Test assembly consumed (3.2b):	No	No	No
Flames to extremities (3.2c): [Dimensions: Left 229mm; Right 229mm; Forward 229mm]	No	No	No
Flames through thickness (3.2c):	No	No	No
Flaming more than 120 seconds after removal of burner tubes [includes flaming drip on floor] (3.2d):	No	No	No

"SUMMARY RESULTS" EXPLAINED: If "Yes" is entered for any category, the report must conclude that ignition did occur.

<b>Received:</b> 07/12/2018	<b>Completed:</b> 07/23/2018	<b>Letter:</b> H12	<b>JB</b>	<b>P.O.#:</b> 4500027812	<b>Test Report #:</b> 3-27317-0-12
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ABBREVIATIONS WHICH MAY BE USED:

- N/O = Not observed.
- NT = Not tested.
- EC = Escalating combustion (unsafe); test extinguished by technician at time noted.

COMMENTS: None.

CONCLUSION: The above Results indicate that:

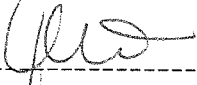
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Phyllis Pettit  
 AUG 0 2 2018