

TEST REPORT

Nº **2017AN2976**

DATE OF RECEPTION	04/12/2017	APPLICANT KOBEFAB INTERNATIONAL B.V. DE VEST, 62 NL-555 XP VALKENSWAARD Att. Jacky Dubury
DATE TEST	Starting: 16/05/2016 Ending: 23/05/2016	

DESCRIPTION AND
IDENTIFICATION OF
SAMPLES

SAMPLES REFERENCED:
-“FABRIC SPRING”.

TESTS CARRIED
OUT

- EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

Rev. 1.

Esta revisión anula y
sustituye a la anterior /
*This revision cancels and
replaces the previous*



RESULTS

EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

DESCRIPTION OF SAMPLE

Sample description and end use application

Orange flexible sheet adhered to white fabric. Composition 100% polyurethane. Reference: "FABRIC SPRING", according to client.

Object and scope EN 1021:2015

This European Standard specifies a test method to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to a smoldering cigarette and a gas flame equivalent to a match flame as an ignition source.

The tests measure only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behavior of the finished item of furniture.

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RESULTS

Standard

EN 1021-1:2014

Sample uncertainty

$\pm 0,554$ s; $\pm 2,393$ mm

Deviations to the standard

Pre-treatment

Water soaking in accordance to annex D of the standard EN 1021-1:2014.

Conditioning

24 h (for at least) / (23 ± 2) °C and (50 ± 5) %HR

Ambiental condition test

24.4 °C and 41.0 %HR

Speed air

0,08 m/s

Filling material

Non-fire retardant polyurethane foam having density of 20-22 Kg/m³

Observations

The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not interested to be the sole criterion for assessing the potential fire hazard of the product in use.

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RESULTS

Ignition source

Smouldering cigarette

- a) Smouldering escalating unsafe
- b) Test assembly consumed
- c) Smoulders specimen extremities
- d) Smoulders through thickness
- e) Smoldering more than an hour
- f) Shows evidence of active smouldering
- g) Cigarettes Self-extinguis
- h) Result: P = Pass | F = Fail.

Trade name

FABRIC SPRING

Specimen	a	b	c	d	e	f	g	h
Specimen 1	no	no	no	no	no	no	si	P
Specimen 2	no	no	no	no	no	no	si	P
Specimen 3*	no	no	no	no	no	no	si	P

*NOTE: 3rd cigarette is tested only in self-extinguishing case.

Notes

A scarce emission of white smoke was observed during the test. The cigarettes have been extinguished at 123 seconds, 135 and 143 seconds, respectively.

PASS



RESULTS

Standard

EN 1021-2:2014

Sample uncertainty

$\pm 0,561$ s; $\pm 2,393$ mm

Deviations to the standard

Pre-treatment

Water soaking in accordance to annex D of the standard EN 1021-2:2014.

Conditioning

24 h (for at least) / (23 ± 2) °C and (50 ± 5) %HR

Ambiental condition test

24.4 °C and 41.0 %HR

Speed air

0,08 m/s

Filling material

Non-fire retardant polyurethane foam having density of 20-22 Kg/m³

Observations

The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not interested to be the sole criterion for assessing the potential fire hazard of the product in use.

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RESULTS

Ignition source

Butane flames equivalent to match flame

- a) Combustion escalating unsafe
- b) Test assembly consumed
- c) Flaming specimen extremities
- d) Flaming through thickness
- e) Flaming more than 120 s
- f) Result: P = Pass | F = Fail.

Trade name

FABRIC SPRING

Specimen	a	b	c	d	e	f
Specimen 1	no	no	no	no	no	P
Specimen 2	no	no	no	no	no	P
Specimen 3	no	no	no	no	no	P

Notes

A scarce emission of white smoke was observed during the test.

PASS

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RESULTS

CRITERIA OF IGNITION PROGRESSIVE SMOULDERING IGNITION
a) Any test assembly that displays escalating combustion behavior so that it is unsafe to continue the test and active extinction is necessary.
b) Any test assembly that smolders until it is largely consumed within the test duration.
c) Any test assembly that smolders to the extremities of the specimen, viz, upper or lower margins, either side or to its full thickness, within the duration of the test.
d) Any test assembly that smolders for more than one hour.
e) Any test assembly that, on final examination, shows evidence of active smoldering.

CRITERIA OF IGNITION FLAMING IGNITION
a) Any test assembly that displays escalating combustion behavior so that it is unsafe to continue the test and active extinction is necessary.
b) Any test assembly that smolders until it is largely consumed within the test duration.
c) Any test assembly that smolders to the extremities of the specimen, viz, upper or lower margins, either side or to its full thickness, within the duration of the test.
d) Any flaming which continues for more than 120 s after removal of the burner tube.

Remark

A flaming ignition is considered to be the occurrence of any flames initiated by a smoldering source.

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Celia Dolça
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