

TEST REPORT NO: 136444

Date: 09 November 2017

**PIERRE FREY SAS
47 RUE DES PETITS CHAMPS
75001 PARIS
FRANCE**

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Retailer	Not Specified
Description of article	I6601 TILDA
Retailer style number	TILDA (NAVY)
Retailer Standard Number	ROLL FABRIC
Order No./ Buyer	1977457
Quality/Fibre Composition	52%VI 27%PL 15%CO 6%LI
Date Sample(s) Received:	31/10/2017

Test

Schedule 4 Parts I Cigarette Test
Schedule 5 Part I Match Test
BS EN 1021-2 Ignition Source 1
BS5852 Ignition Source 5

Remarks

Tests as requested by the customer.

Signature

For and on behalf of
SGS Leicester Limited



All samples are conditioned to ISO 139 where conditioning is required (unless otherwise stated)

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Customer: **PIERRE FREY SAS** Test Report No: **136444**

Test Results

BS EN 1021 -1 & 2:2014
Assessment of the ignitability of upholstered furniture
Part 1 – Ignition source smouldering cigarette
Part 2 – Ignition source match flame equivalent

Description of Test Specimen – Navy woven fabric

Test Requested

The test specimen has been tested to BS EN 1021 – 1 & 2: 2014 Smouldering cigarette and match flame.

Preparation (Clause 7.1)

The test specimen was not subject to a water soak as outlined in Annex D with a temperature of 40 ± 1 °C.

Conditioning (Clause 7.2)

All materials to be tested and the cigarettes have been conditioned for at least 24 hours immediately before the tests in an atmosphere 23 ± 2°C and 50 ± 5% r.h.

Comments on Test Results

The test specimen meets the requirements of BS EN 1021-1 & 2: 2014 The result for both tests has been stated as non-ignition.

Test Results –

Ignition source Smouldering Cigarette

Criteria of ignition	Cigarette 1	Cigarette 2
<i>Progressive smouldering ignition</i> Clause 3.1a – test assembly displays escalating combustion behaviour so that it is unsafe to continue.	No	No
Clause 3.1b – test assembly that smoulders until it is largely consumed	No	No
Clause 3.1c – test assembly that smoulders to the extremities within the test duration	No	No
Clause 3.1d – test assembly that smoulders after one hour from application of the ignition source	No	No
Clause 3.1e – test assembly on final examination shows evidence of progressive smouldering	No	No
<i>Flaming Ignition</i> Occurrence of flames initiated by a smouldering source	No	No
Ignition occurring	Non – Ignition	Non – Ignition

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Customer: **PIERRE FREY SAS** Test Report No: **136444**

Test Results

Ignition source Match Flame

Criteria of ignition	Match Flame 1	Match Flame 2
Progressive smouldering ignition Clause 3.1a – test assembly displays escalating combustion behaviour so that it is unsafe to continue.	No	No
Clause 3.1b – test assembly that smoulders until it is largely consumed	No	No
Clause 3.1c – test assembly that smoulders to the extremities within the test duration	No	No
Clause 3.1d – test assembly that smoulders after one hour from application of the ignition source	No	No
Clause 3.1e – test assembly on final examination shows evidence of progressive smouldering	No	No
Flaming Ignition Clause 3.2a – Test assembly displays escalating combustion behaviour so that it is unsafe to continue	No	No
Clause 3.2b – Test assembly burns until it is essentially consumed	No	No
Clause 3.2c – Flame reaches the lower margin, either side or passed through the full thickness	No	No
Clause 3.2d – Flaming continues for more than 120 seconds after removal of burner tube	No	No
Ignition occurring	Non – Ignition	Non – Ignition

The test specimen was tested over Combustion modified foam (CMHR) with a density of 35kg/m³. The above test results relate only to the ignitability of the combination of materials under particular conditions of test; they are not intended as a means of assessing the full fire hazard of the materials in use.

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Customer: **PIERRE FREY SAS** Test Report No: **136444**

Test Results

Schedule 4 The Cigarette Test Part 1 and Schedule 5 The Match Test Part 1 in accordance with BS 5852: Part 1: 1979

Test Requested

The sample supplied is a navy woven fabric and has been tested to the flammability performance requirements of The Furniture and Furnishing (Fire) (Safety) Regulations 1988 S.I No 1324 as amended, Schedule 4 Part 1 The Cigarette Test and Schedule 5 Part 1 The Match Test, using BS 5852: Part 1: 1979.

Fibre Identification

Reputed Fibre Composition: 52% VI, 27% PL, 15% CO, 6% LI

Pre-Treatment

The sample was not subjected to a water soak procedure as described in BS 5651:1978 Clause 4.5

Conditioning

The sample was conditioned in an indoor ambient condition for at least 72 hours, then for at least 16 hours in an atmosphere having a temperature of 20 ± 5 °C and a relative humidity of $50 \pm 20\%$.

Comments of Test Results

The sample supplied meets the flammability performance requirements of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I No 1324 as amended Schedule 4 Part 1 The Cigarette Test and Schedule 5 Part 1 The Match Test and therefore may be used in upholstered furniture, which carries the relevant permanent label.

Results

'The following tests 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'

The Cigarette Test

Pass Criteria:

Two cigarettes are placed along the junction between the horizontal and vertical test pieces in accordance with Clause 9.2.2. No progressive smouldering or flaming is to be observed within 1 hour of placement of the cigarette (Clause 9.2.4).

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Test Results

The Cigarette Test		
	Cigarette 1	Cigarette 2
Smouldering Time of the Cigarette	24 min 31 sec	25 min 17 sec
Clause 9.2.3 Evidence of Progressive Smouldering/ Flaming or Afterglow.	No	No
Cover Splitting	No	No
Clause 9.4 Any Internal Progressive Smouldering during the Final Examination	No	No
Test Result	Pass	Pass

The Match Test

Pass Criteria:

A butane flame is applied at the junction between the horizontal and vertical test pieces for a period 20 ± 1 second in accordance with clause 9.3.2. No Flaming or Progressive Smouldering is to be observed after 2 minutes of the removal of the burner tube (Clause 9.3.4).

The Match Test		
	Match 1	Match 2
Clause 9.3.4 Evidence of Flaming/ Progressive Smouldering/ Afterglow or Smoking	No	No
Cover Splitting	No	No
Clause 9.4 Any Internal Progressive Smouldering during the Final Examination	No	No
Test Result	Pass	Pass

Smouldering Cigarette test and the match test were carried out over Non-Fire Retardant Polyurethane Foam Density of 20-22 Kg per m³/ The face of the fabric was tested.

The test specimen was extinguished due to flaming being greater than 120 seconds.

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Customer: PIERRE FREY SAS **Test Report No:** 136444

Test Results

BS 5852:2006: Clause 11: Ignition Source 5

Test Request

The sample supplied is a navy woven fabric and has been tested to BS 5852:2006 Clause 11 using Ignition Source 5.

Fibre Identification

Reputed Fibre Composition 52% VI, 27% PL, 15% CO, 6% LI

Pre-Treatment

The sample supplied was not water soaked

Conditioning

Before testing the sample was conditioned in an indoor ambient condition for 72 hours and in a standard atmosphere having a temperature of 23°C ± 2°C and a relative humidity of 50% r.h ± 5% for a minimum of 16hours.

Comments on Test Results

The sample supplied does not meet the requirements of BS 5852:2006 Clause 11, I/5 for the reason being the duration of flaming is greater than 10 minutes after the ignition of the crib, and the flame front has reached the lower margin either side and passed through the full thickness of the test specimen within the test duration.

Results

“The following test results relate only to the ignitability of combination of upholstery composites (BS 5852:2006 Clause 11) under the particular conditions of the test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.”

Ignition Source 5

Pass Criteria: ~ Disregard flaming which ceases within 10 minutes. Smoke, heat or glowing which ceases within 60 minutes of igniting the crib.

No smouldering is to be present in the final examination.

Specimen Number	1	Time
Smoking	Y	>10 mins
Smouldering	N/A	-
Flaming	Y	>10 mins
Afterglow	N/A	-
Flame front reaches extremities within the test duration (other than the top of vertical part)	Y	N/A
Cover Split	Y	N/A
Final examination (ignition or Non-Ignition)	Ignition	

Please note that the fabric sample was tested over combustion-modified foam with a density of 35kg per M³.

Key: Y = Yes N = No N/A = Not Applicable

End of Report

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