

TEST REPORT NO: 189446

Date: 13 July 2023

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

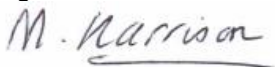
The following sample(s) was/were submitted and identified by/on behalf of the client as:

| | |
|------------------------------------|------------------------|
| Retailer | Not Specified |
| Description of article | F3783 GRENADIER FABRIC |
| Retailer style number | CREAM / BEIGE |
| Retailer Standard Number | UNKNOWN |
| Order No./ Buyer | ADELINE JELAGO |
| Quality/Fibre Composition | UNKNOWN |
| Date Sample Received/Test Started: | 04 July 2023 |

| Tests | Pass | Fail | Remarks |
|--------------------------------|------|------|---------|
| BS 5852 Ignition Source 0 | X | | |
| BS 5852 Ignition Source 1 | | X | |
| BS EN 1021-1 Ignition Source 0 | X | | |
| BS EN 1021-2 Ignition Source 1 | X | | |

(please note our uncertainty of measurement has been taken into account when the above results were pass/failed)
(Any statement of conformity made in this report unless otherwise stated in the test specification(s) is in line with SGS United Kingdom (Leicester) Decision rule LEI-GEN-PROC-012).

Signature



M. Harrison Laboratory Manager

For and on behalf of
SGS United Kingdom Ltd

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: **189446**

Test Results

BS 5852: Part 1: 1979

Methods of test for the ignitability by smokers' materials of upholstered composites for seating.

Test Requested

The test specimen supplied is F3783 Grenadier fabric and has been tested using ignition sources 0 and 1 using the following test method BS 5852: Part 1: 1979.

Fibre Identification

Stated Fibre Composition: Unknown

Conditioning

The materials to be tested and cigarettes were conditioned immediately before the test for 72 hours in an indoor ambient condition and then for at least 16 hours in an atmosphere having a temperature of $20 \pm 5^{\circ}\text{C}$ and a relative humidity of $50 \pm 20\%$.

Comments of Test Results

The test specimen meets the requirements of clause 9 from BS 5852: Part 1: 1979 using ignition source 1.

The test specimen does not meet the requirements of clause 9 from BS 5852: Part 1: 1979 using ignition source 0, due to progressive smouldering

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'

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Test Results

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).

| The Cigarette Test | | |
|--|-------------|--------------------------------|
| | Cigarette 1 | Cigarette 2 |
| Clause 9.2.3 Evidence of Progressive Smouldering/ Flaming or Afterglow. | No | Yes (Progressive Smouldering) |
| Cover Splitting | No | Yes |
| Clause 9.4 Any Internal Progressive Smouldering during the Final Examination | No | No |
| Test Result | Pass | Fail |

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.

Measurement of uncertainty

Ignition source 0: +0sec/-60sec progressive smouldering
 Ignition source 1: +0sec/-60sec smouldering +0sec/-2sec flaming

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Customer: **PIERRE FREY SAS** Test Report No: **189446**

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

Description of Test Sample: **F3783 Grenadier fabric**

Test Requested

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

Pre – Treatment

The customer has stated that the supplied test specimen has not been chemically treated so therefore no water soaking procedure has been performed.

Conditioning

All materials to be tested and the cigarettes have been conditioned for at least 24 hours immediately before the tests in an atmosphere $23 \pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ r.h.

Comments on Test Results

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

Uncertainty of measurement:

| | |
|-------------------------|--------------------|
| Source 0 | |
| Progressive Smouldering | +0 secs / -60 secs |
| Source 1 | |
| Smouldering | +0 secs / -60 secs |
| Flaming | +0 secs / -2 secs |

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Test Results

'The 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.'

Ignition source Smouldering Cigarette

| | Criteria of ignition | Cigarette 1 Criteria Observed | Cigarette 2 Criteria Observed |
|---|---------------------------|----------------------------------|----------------------------------|
| Progressive smouldering ignition | Clause 3.1a | No | No |
| | Clause 3.1b | No | No |
| | Clause 3.1c | No | No |
| | Clause 3.1d | No | No |
| | Clause 3.1e | No | No |
| Flaming ignition | Occurrence of flames | No | No |
| | Ignition occurring | Non – Ignition | Non – Ignition |

Ignition source Match Flame

| | Criteria of Ignition | Match Flame 1 Criteria Observed | Match Flame 2 Criteria Observed |
|---|---------------------------|------------------------------------|------------------------------------|
| Progressive smouldering ignition | Clause 3.1a | No | No |
| | Clause 3.1b | No | No |
| | Clause 3.1c | No | No |
| | Clause 3.1d | No | No |
| | Clause 3.1e | No | No |
| Flaming ignition | Clause 3.2a | No | No |
| | Clause 3.2b | No | No |
| | Clause 3.2c | No | No |
| | Clause 3.2d | No | No |
| | Ignition occurring | Non – Ignition | Non – Ignition |

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The test specimen was tested over Combustion modified foam (CMHR) with a density of 35kg/m³.

Smouldering criteria of Ignition

- Clause 3.1a – Test assembly displays escalating combustion behaviour so that it is unsafe to continue
- Clause 3.1b – Test assembly that smoulders until it is largely consumed
- Clause 3.1c – Test assembly that smoulders to the extremities within the test duration
- Clause 3.1d – Test assembly that smoulders after one hour from application of the ignition source
- Clause 3.1e – Test assembly on final examination shows evidence of progressive smouldering

Flaming Ignition

- Clause 3.2a – Test assembly displays escalating combustion behaviour so that it is unsafe to continue
- Clause 3.2b – Test assembly burns until it is essentially consumed
- Clause 3.2c – Flame reaches the lower margin, either side or passed through the full thickness
- Clause 3.2d – Flaming continues for more than 120 seconds after removal of burner tube



End of Report

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