

**TEST REPORT NO: 165498A (Replaces 165498)**

Date: 12 October 2020

Original report dated 02 October 2020

**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	F3527 CATHERINE FABRIC
Retailer style number	MULTI
Retailer Standard Number	UNKNOWN
Order No./ Buyer	2116659
Quality/Fibre Composition	74% CO 11% AQ 6% PES 6% PA 3% VI
Date Sample(s) Received:	24 September 2020

Tests	Pass	Fail	Remarks
BS 5852 Crib 5		X	
BS EN 1021-1 Ignition Source 0	X		
BS EN 1021-2 Ignition Source 1	X		
BS 5852 Ignition Source 0 & 1	X		

(please note our uncertainty of measurement has been taken into account when the above results were pass/failed)

Signature



**Nicola Moon Customer Services Supervisor**

For and on behalf of  
SGS United Kingdom Ltd

All samples are conditioned to ISO 139 where conditioning is required (unless otherwise stated)  
Report 165498A supersedes report 165498 dated 02 October 2020, comments on page 6 amended as requested

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**Customer:** PIERRE FREY SAS      **Test Report No:** 165498A (Replaces 165498)

**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:** Multi Catherine 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.

**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.’*

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Customer: PIERRE FREY SAS

Test Report No:

165498A (Replaces  
165498)

**Test Results**

**Ignition source Smouldering Cigarette**

	Criteria of ignition	Cigarette 1 Criteria Observed	Cigarette 2 Criteria Observed
<b>Progressive smouldering ignition</b>	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
<b>Flaming ignition</b>	Occurrence of flames	No	No
	<b>Ignition occurring</b>	Non – Ignition	Non – Ignition

**Ignition source Match Flame**

	Criteria of Ignition	Match Flame 1 Criteria Observed	Match Flame 2 Criteria Observed
<b>Progressive smouldering ignition</b>	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
<b>Flaming ignition</b>	Clause 3.2a	No	No
	Clause 3.2b	No	No
	Clause 3.2c	No	No
	Clause 3.2d	No	No
	<b>Ignition occurring</b>	Non – Ignition	Non – Ignition

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**Customer:** PIERRE FREY SAS

**Test Report No:**

**165498A (Replaces  
165498)**

### **Test Results**

The test specimen was tested over Combustion modified foam (CMHR) with a density of 35kg/m<sup>3</sup>.

#### **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

#### 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:** 165498A (Replaces 165498)

## 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 Multi Catherine 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: 74% CO 11% AQ 6% PES 6% PA 3% VI

### **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 0 and 1.

### **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'

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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**Customer:**

**PIERRE FREY SAS**

**Test Report No:**

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**Test Results**

The Cigarette Test		
	Cigarette 1	Cigarette 2
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

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 m<sup>3</sup>. 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:** 165498A (Replaces 165498)

**Test Results**

**BS 5852: 2006**

**Clause 11 using Ignition Source 5**

**Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources**

**Description of Test Sample:** Multi Catherine fabric

**Test Request**

The sample supplied has been tested against the test method BS 5852: 2006 Clause 11 using ignition source 5.

**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**

The materials and cribs were conditioned for at least 72 hours in an indoor ambient temperature and then immediately before the test 24 hours in an atmosphere of 23± 2°C and 50± 5% r.h.

**Comments on Test Results**

The sample supplied does not meet the requirements of BS 5852: 2006 Clause 11, using ignition source 5 due to failure against the clauses stated in the results table.

**Test Results**

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

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Customer:

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Test Report No:

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**Test Results**

	Criteria of Ignition	Test 1 Criteria Observed
<i>Progressive smouldering ignition</i>	Clause 4.1.1 a	N/A
	Clause 4.1.1 c	N/A
	Clause 4.1.1 e	N/A
	Clause 4.1.1 f	N/A
<i>Flaming Ignition</i>	Clause 4.2.1 a	No
	Clause 4.2.1 b	Yes
	Clause 4.2.1 c	Yes
	Clause 4.2.1 e	Yes
	Clause 4.2.1 g	No
<b>Ignition occurring</b>		Ignition (Flaming)

The test specimen was tested over Combustion modified foam (CMHR) with a density of 35kg/m<sup>3</sup>.

**Criteria of Ignition**

**Smouldering Ignition**

- Clause 4.1.1 (a) Test specimen displays escalating smouldering combustion behaviour so that it is unsafe to continue and requires forcible extinction.
- Clause 4.1.1 (c) Test specimen smoulders until it is essentially consumed or smoulders to the extremities.
- Clause 4.1.1 (e) Test specimen produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib.
- Clause 4.1.1 (f) Test specimen shows evidence of charring within the filling more than 100 mm in any direction apart from upwards.

**Flaming Ignition**

- Clause 4.2.1 (a) Test specimen displays escalating flaming combustion behaviour and requires forcible extinction.
- Clause 4.2.1 (b) Test specimen that burns until it is essentially consumed within the test duration.
- Clause 4.2.1 (c) Test specimen on which any flame front reaches the extremities of the test specimen other than the top of the vertical part, or passes through the full thickness of the specimen within the test duration.
- Clause 4.2.1 (e) Test specimen continues to flame for more than 10 minutes.
- Clause 4.2.1 (g) Test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than 10 minutes.

Measurement of uncertainty

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**Test Report No:**

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### Test Results

Ignition Source 5 +0sec/-60sec smouldering +0sec/-10sec flaming

### Uncertainty of Measurement

BS EN 1021-1 / BS 5852 Ignition Source 0 - +0 sec / -60 sec Progressive Smouldering

BS EN 1021-2 / BS 5852 Ignition Source 1 - +0 sec / -60 sec Smouldering, +0 sec / +2 sec Flaming

BS 5852 Ignition Source 5 - +0 sec / -10 sec Flaming



End of Report

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