

TEST REPORT NO: 142265

Date: 10 May 2018

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	HAIRY WOOL FABRIC
Retailer style number	WHITE
Retailer Standard Number	
Order No./ Buyer	2005976 YETI
Quality/Fibre Composition	61% WOOL 14.5% MOHAIR 14.5% ALPACA 10% POLYAMIDE
Date Sample(s) Received:	3 May 2018

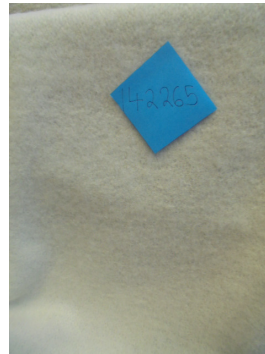
Test

BS5852 Ignition Source 0 & 1	Pass
BS5852 Ignition Source 5	Pass
BS EN 1021-1 Ignition Source 0	Pass
BS EN 1021-2 Ignition Source 1	Pass

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: **142265**

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: Hairy wood 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

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 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.'

Ignition source Smouldering Cigarette

	Criteria of ignition	Cigarette 1	Cigarette 2
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

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Test Results

Ignition source Match Flame

	Criteria of Ignition	Match Flame 1	Match Flame 2
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

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

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Customer: **PIERRE FREY SAS** Test Report No: **142265**

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 a woven 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: 61.1% Wool, 14.5% Mohair, 14.5% Alpaca, 10% Polyamide

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'

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Customer: PIERRE FREY SAS **Test Report No:** 142265

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	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	Yes	Yes
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.

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Customer: **PIERRE FREY SAS** Test Report No: **142265**

Test Results

BS 5852:2006: Clause 11: Ignition Source 5

Test Request

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

Fibre Identification

Reputed Fibre Composition 61.1% Wool, 14.5% Mohair, 14.5% Alpaca, 10% Polyamide

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 meets the requirements of BS 5852:2006 Clause 11, I/5.

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	2	Time
Smoking	Y	7 min 41 sec	Y	7 min 58 sec
Smouldering	N	-	N	-
Flaming	Y	5 min 7 sec	Y	5 min 28 sec
Afterglow	N	-	N	-
Flame front reaches extremities within the test duration (other than the top of vertical part)	N	N/A	N	N/A
Cover Split	Y	N/A	Y	N/A
Final examination (ignition or Non-Ignition)	Pass		Pass	

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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