TEST REPORT NO: 165675

Date: 07 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	SUPPORT 100% PES OUTDOOR EX: F3546 TREILLAGE FABRIC
Retailer style number	YELLOW / IVORY
Retailer Standard Number	UNKNOWN
Order No./ Buyer	2117720
Quality/Fibre Composition	100% PES OUTDOOR
Date Sample(s) Received:	01 October 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	X		
BS 5852 Ignition Source 1		X	

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

Signature

Stuart Bishop Senior Technician

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:** **165675**

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 yellow & ivory 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: 100% PES Outdoor

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 ± 5°C and a relative humidity of 50 ± 20 %.

Comments of Test Results

The test specimen meets the requirements of clause 9 from BS 5852: Part 1: 1979 using ignition source 0

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

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:** **165675**

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	Yes	Yes
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
Clause 9.3.4 Evidence of Flaming/ Progressive Smouldering/ Afterglow or Smoking	Yes (Flaming)
Cover Splitting	Yes
Clause 9.4 Any Internal Progressive Smouldering during the Final Examination	N/A
Test Result	Fail

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.

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:** **165675**

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: Yellow & Ivory 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 ± 2°C and 50 ± 5% r.h.

Comments on Test Results

The test specimen does not meet the requirements of BS EN 1021 - 2: 2014 due to flaming ignition.

The test specimen meets the requirements of BS EN 1021 - 1 :2014 the result 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:** 165675

Test Results

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
Progressive smouldering ignition	Clause 3.1a	N/A
	Clause 3.1b	N/A
	Clause 3.1c	N/A
	Clause 3.1d	N/A
	Clause 3.1e	N/A
Flaming Ignition	Clause 3.2a	No
	Clause 3.2b	No
	Clause 3.2c	No
	Clause 3.2d	Yes
	Ignition occurring	Ignition (Flaming)

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

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Customer: **PIERRE FREY SAS** **Test Report No:** **165675**

Test Results

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:** 165675

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: Yellow & Ivory 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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Test Results

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

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

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.

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Customer: **PIERRE FREY SAS** **Test Report No:** **165675**

Test Results

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

End of Report

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