**TEST REPORT NO**:117543 Date:14 July 2016

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

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

| | |
|---|---|
| Retailer | Not Specified |
| Description of article | Zenith |
| Retailer style number | F2915 |
| Retailer Standard Number | Unknown |
| Order No./ Buyer | 20160622-7 |
| Quality/Fibre Composition | 55%LI, 45%CO |
| Date Sample(s) Received: | 07 July 2016 |

**Test**

| | |
|---|---|
| Schedule 4 Parts I Cigarette Test | Pass |
| Schedule 5 Part I Match Test | Fail |
| BS5852 Ignition Source 5 (cribs) | Fail |
| BS EN 1021-1 Ignition Source 0 (Cigarette) | Pass |
| BS EN 1021-2 Ignition Source 1 (match) | Pass |

**Remarks**
Tests as requested by the customer

Signature

For and on behalf of
SGS Leicester Ltd.

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

**Customer:** Pierre Frey SAS **Test Report No:** 117543

**EN 1021-1-2:2014**

**Test Request**

The sample supplied is a woven upholstery fabric and has been tested to EN 1021-1-2:2014, Smouldering Cigarette and Match Ignition, 0+1.

**Fibre Identification**

Reputed Fibre Composition: 55% Li 45% Co

**Pre-Treatment**

The sample was cleansed using a water-soak procedure at 40°C ± 1°C as described in Annex D and line dried.

**Conditioning**

The sample has been tested after a 24 hour conditioning in a atmosphere of a relative humidity 50 ± 5% and a temperature of 23 ± 2°C

**Comments on Test Results**

The fabric sample supplied meets the requirements of EN 1021-1-2:2014 Smouldering Cigarette and Match test.

**Results**

'The following test results relate only to the ignitability if the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard if the materials in use.'

**Cigarette Test**

Pass criteria:

When two samples are tested no progressive smouldering or flaming is to be observed within 1 hour of placement of the cigarette. If the cigarette fails to smoulder to it complete length, the test is repeated in a new position not less than 50mm from the previous damage. No progressive smouldering is to be present in the final examination.

| Cigarette Ignition | | | |
|---|---|---|---|
| Specimen Number | 1 | *2* | *3* |
| Smouldering time of the Cigarette | 33mins 51secs | 34mins 13secs | 34mins 22secs |
| Smouldering | NPS | NPS | NPS |
| Flaming | N | N | N |
| Smoking | N | N | N |
| After Glow | N | N | N |
| Cover Splitting | N | N | N |
| ***Final Examination*** | **P** | **P** | **P** |

**Match Test**

*Pass Criteria:*

*Disregard flaming or progressive smouldering which ceases within 120seconds of the removal of the burner tube. Disregard smoking and afterglow which creases within 15minutes of the removal of the burner tube as per British Standards committee CCM/44.No progressive smouldering is to be present in the final examination.*

| Match Test | | | | | | |
|---|---|---|---|---|---|---|
| Specimen Number | 1 | Time | 2 | Time | 3 | Time |
| Smouldering | N | - | N | - | N | - |
| Flaming | N | - | N | - | N | - |
| Smoking | Y | 3secs | Y | 4secs | Y | 4secs |
| Afterglow | N | - | N | - | N | - |
| Cover split | N | | N | | N | |
| **Final Examination** | **P** | | **P** | | **P** | |

Please note that the fabric sample was tested over Combustion Modified Foam (CMHR) with a density of 35kg per $M^3$.

*Key*

*Y= Yes N=No N/A= Not Applicable*

*P=Pass F=Fail DNS= Did Not Smoulder*

*NPS = Non progressive smouldering*

*PS = Progressive smouldering within 1 hour*

**Customer:** Pierre Frey SAS **Test Report No:** 117543

**Smouldering Cigarette and Match Ignition: BS 5852: Part 1 1979**

**Test Request**
The sample supplied is a woven upholstery fabric and has been tested to the flammability performance requirements of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No 1324 as amended, Schedule 4 part 1 smouldering cigarette and schedule 5 part 1 Match ignition, using BS 5852:1979.

**Fibre Identification**
Reputed Fibre Composition: 55% Li 45% Co

**Pre-Treatment**
The sample was subjected to a water soak procedure as described in BS5651: 1978 Clause 4.5 (as amended by the Furniture and Furnishing Regulations) and then line dried.

**Conditioning**
The sample was conditioned in a indoor ambient conditions for 72 hours and then in a standard atmosphere having a temperature of 20ºc ± 5ºc and a relative humidity of 50% r.h. ± 20% for a minimum of 16 hours.

**Comments on Test Results**
The fabric sample supplied does not meet the flammability performance requirements of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No 1324 as amended, Schedule 5 Part1 Match ignition, due to the duration of flaming is greater than 120 seconds after the removal of Ignition source.

The fabric sample supplied meets the flammability performance requirements of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No 1324 as amended, Schedule 4 Part1 smouldering cigarette when tested as stated in the results.

**Customer:** Pierre Frey SAS **Test Report No:** 117543

**Results**

*'The following test 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 materials in use.'*

**Cigarette Test**

*Pass criteria:*

*When two samples are tested no progressive smouldering or flaming is to be observed within 1 hour of placement of the cigarette. If the cigarette fails to smoulder to it complete length, the test is repeated in a new position not less than 50mm from the previous damage. No progressive smouldering is to be present in the final examination.*

| Cigarette Ignition | | |
|---|---|---|
| Specimen Number | 1 | *2* |
| Smouldering time of the Cigarette | 32mins 37secs | 32mins 49secs |
| Smouldering | NPS | NPS |
| Flaming | N | N |
| Smoking | N | N |
| After Glow | N | N |
| Cover Splitting | N | N |
| **Final Examination** | **P** | **P** |

**Match Test**

*Pass Criteria:*

*Disregard flaming or progressive smouldering which ceases within 120seconds of the removal of the burner tube. Disregard smoking and afterglow which creases within 15minutes of the removal of the burner tube as per British Standards committee CCM/44.No progressive smouldering is to be present in the final examination.*

| Match Test | | |
|---|---|---|
| Specimen Number | 1 | Time |
| Smouldering | N/A | - |
| Flaming | Y | >120secs |
| Smoking | Y | >120secs |
| Afterglow | N/A | - |
| Cover split | Y | N/A |
| Final Examination | F | |

Please note the sample was extinguished due to the flaming being greater than 120 seconds after the removal of the ignition source.

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

Key

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

P=Pass F=Fail DNS= Does not smoulder

NPS = Non progressive smouldering

PS = Progressive smouldering within 1 hour

**Customer:** Pierre Frey SAS **Test Report No:** 117543

**BS 5852:2006: Clause 11: Ignition Source 5**

**Test Request**

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

**Fibre Identification**

Reputed Fibre Composition: 55% Li 45% Co

**Pre-Treatment**

The sample supplied was water soaked and dried in accordance to BS 5852:2006 Annex E

**Conditioning**

Before testing the sample was conditioned in an indoor ambient condition for 72 hours and in a standard atmosphere having a temperature of 20°C ± 5°C and a relative humidity of 50% r.h ± 20% 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.

**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 | >10mins |
| Smouldering | N/A | - |
| Flaming | Y | >10mins |
| Afterglow | N/A | - |
| Flame front reaches extremities within the test duration (other than the top of vertical part) | N | 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 $M^3$.

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

*End of Report*