TEST REPORT

DATE OF RECEPTION
17/06/2019

DATE TESTS
Starting: 17/06/2019
Ending: 05/07/2019

APPLICANT
GABRIEL A/S
HULMAGERVEJ 55
DK-9000 Ålborg

Att. Claus Johansen

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES
FABRIC Fame 60033 Light Grey

TESTS CARRIED OUT

- COLOUR FASTNESS TO ARTIFICIAL LIGHT.
- COLOUR FASTNESS TO RUBBING.
- DETERMINATION OF THE SLIPPAGE RESISTANCE OF YARNS AT A SEAM IN WOVEN FABRICS: FIXED LOAD METHOD.
- DETERMINATION OF BREAKING STRENGTH AND ELONGATION.
- DETERMINATION OF TEAR RESISTANCE.
- EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE.
- MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE.

Tests marked with * are not included within the scope of the ENAC accreditation

Rev.1 Esta revisión anula y sustituye a la anterior / This revision cancels and replaces the previous
RESULTS

COLOUR FASTNESS TO ARTIFICIAL LIGHT

Standard
EN ISO 105-B02:2014. Method 2

Apparatus
Xenotest 440 02423E06

Exposure conditions
Normal

Evaluation conditions
Light camera Gretagmacbeth (02021N06)

<table>
<thead>
<tr>
<th>Reference</th>
<th>Light fastness</th>
</tr>
</thead>
<tbody>
<tr>
<td>FABRIC Fame 60033 Light Grey</td>
<td>5-6</td>
</tr>
</tbody>
</table>

REMARK
The fastness grade indicated comes up to:
- Depth change: More clear
- Hue change: No notes
- Brightness change: No notes

MEANING OF COLOUR VALUES FASTNESS TO ARTIFICIAL LIGHT

<table>
<thead>
<tr>
<th>VALUE</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>EXCELLENT</td>
</tr>
<tr>
<td>7</td>
<td>VERY GOOD</td>
</tr>
<tr>
<td>6</td>
<td>GOOD</td>
</tr>
<tr>
<td>5</td>
<td>MODERATE</td>
</tr>
<tr>
<td>4</td>
<td>FAIR</td>
</tr>
<tr>
<td>3</td>
<td>POOR BEHAVIOUR</td>
</tr>
<tr>
<td>2</td>
<td>POOR BEHAVIOUR</td>
</tr>
<tr>
<td>1</td>
<td>VERY POOR</td>
</tr>
</tbody>
</table>
RESULTS

COLOUR FASTNESS TO RUBBING

Standard
ISO 105-X12:2016

Apparatus
Crockmeter

Starting test date
17/06/2019

Ending test date
25/06/2019

Conditioning time
> 4 H

Atmosphere for conditioning and testing

<table>
<thead>
<tr>
<th>Temperature</th>
<th>(20±2) ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>(65±2) %Hr</td>
</tr>
</tbody>
</table>

Pin
Cylindrical

Applied force
(9 ± 0,2) N

% of water absorption for rubbing in humid
95-100 %

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>DIRECTION</th>
<th>DRY STAINING</th>
<th>WET STAINING</th>
</tr>
</thead>
<tbody>
<tr>
<td>FABRIC Fame 60033 Light Grey</td>
<td>Warp</td>
<td>4-5</td>
<td>4-5</td>
</tr>
<tr>
<td></td>
<td>Weft</td>
<td>4-5</td>
<td>4-5</td>
</tr>
</tbody>
</table>
RESULTS

DETERMINATION OF THE SLIPPAGE RESISTANCE OF YARNS AT A SEAM IN WOVEN FABRICS: FIXED LOAD METHOD

Standard
EN ISO 13936-2:2004

Apparatus
INSTRON Dynamometer

Atmosphere for conditioning and testing
Temperature  
(20±2) ºC
Relative Humidity  
(65±4) %

Maximum force
180 N

Woven fabrics
Upholstery fabrics

<table>
<thead>
<tr>
<th>Reference</th>
<th>Stitching direction</th>
<th>Maximum opening measured after reduction of force to 5.0 N (average values)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FABRIC FAME 60033</td>
<td>Warp</td>
<td>3.50 mm</td>
</tr>
<tr>
<td>LIGHT GREY</td>
<td>Weft</td>
<td>4.00 mm</td>
</tr>
</tbody>
</table>

REQUISITE ACCORDING TO STANDARD EN 14465:2003+A1:2006 FOR UPHOSLSTERY FABRICS

<table>
<thead>
<tr>
<th>Test</th>
<th>Unit</th>
<th>Level of Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAM</td>
<td>mm.</td>
<td>A     B   C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≤ 4   ≤ 6 ≤ 8</td>
</tr>
</tbody>
</table>

LEVEL A
RESULTS

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

Standard
EN ISO 13934-1:2013

Apparatus
INSTRON Dynamometer

Conditioning date
26/06/2019 – 03/07/2019

Test date
03/07/2019

Gauge length
200 mm

Rate of extension
100 mm/min

Pretension

<table>
<thead>
<tr>
<th></th>
<th>Warp</th>
<th></th>
<th>Weft</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 N</td>
<td></td>
<td>5 N</td>
<td></td>
</tr>
</tbody>
</table>

Atmosphere for conditioning and testing

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>(20±2) ºC</td>
<td>(65±4) %</td>
</tr>
</tbody>
</table>

Nº of specimens

<table>
<thead>
<tr>
<th>Tested</th>
<th>Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 for each direction</td>
<td>0</td>
</tr>
</tbody>
</table>

Reference
FABRIC FAME 60033 LIGHT GREY

<table>
<thead>
<tr>
<th>Direction</th>
<th>Average load (N)</th>
<th>C.V. (%)</th>
<th>Elongation to the maximum load (%)</th>
<th>Elongation at 150 N Load (%)</th>
<th>C.V. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warp</td>
<td>900</td>
<td>2.0</td>
<td>39.0</td>
<td>6.6</td>
<td>4.6</td>
</tr>
<tr>
<td>Weft</td>
<td>930</td>
<td>2.0</td>
<td>39.0</td>
<td>7.1</td>
<td>4.6</td>
</tr>
</tbody>
</table>

///
RESULTS

DETERMINATION OF TEAR RESISTANCE

Standard
EN ISO 13937-3:2000

Apparatus
INSTRON Dynamometer

Atmosphere for conditioning and testing

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>(20±2) ºC</td>
<td>(65±4) %</td>
</tr>
</tbody>
</table>

Nº of specimens

<table>
<thead>
<tr>
<th>Tested</th>
<th>Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 for each direction</td>
<td>0</td>
</tr>
</tbody>
</table>

The calculation of averages has been made

For electronic device

<table>
<thead>
<tr>
<th>Reference</th>
<th>Tear</th>
<th>Average load (N)</th>
<th>C.V. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FABRIC FAME 60033 LIGHT GREY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warp</td>
<td>170</td>
<td></td>
<td>27.0</td>
</tr>
<tr>
<td>Weft</td>
<td>130</td>
<td></td>
<td>11.0</td>
</tr>
</tbody>
</table>
RESULTS
EVALUATION OF THE IGNITABILITY OF UPHOLSTERED FURNITURE

DESCRIPTION OF SAMPLE

Sample description and end use application
Grey fabric with an estimated weight of 450 g/m². Composition: 95/5% W/PA. Reference: “Fame Color name and number: L. Grey 60033”, according to client.

Object and scope EN 1021:2014
This European Standard specifies a test method to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to a smoldering cigarette and a gas flame equivalent to a match flame as an ignition source. The tests measure only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behavior of the finished item of furniture.
RESULTS

Standard
EN 1021-1:2014

Sample uncertainty
± 0,554 s; ± 2,393 mm

Deviations to the standard
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Pre-treatment
By the clause 7.1 of the EN 1021-1:2014 standard, the material hasn't been carried out any ageing procedure, because it does not contains any flame retardant treatment, it is been formulated as flame retardant or it is flame retardant intrinsically, according to client

Conditioning
24 h (for at least) / (23±2) °C and (50±5) %HR

Ambiental condition test
23.6 °C and 49.0 %HR

Speed air
0.07 m/s

Filling material
Non-fire retardant polyurethane foam having density of 20-22 Kg/m³

Date test
25/06/2019

Observations
The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not interested to be the sole criterion for assessing the potential fire hazard of the product in use.

___________________________________________________

>>>
RESULTS

Ignition source

Smouldering cigarette

a) Smouldering escalating unsafe
b) Test assembly consumed
c) Smoulders specimen extremities
d) Smoulders through thickness
e) Smoldering more than an hour
f) Shows evidence of active smouldering
g) cigarettes Self-extinguishing
h) Result:  P = Pass | F = Fail.

Trade name
Fame Color name and number: L. Grey 60033

<table>
<thead>
<tr>
<th>Specimen</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen 1</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>P</td>
</tr>
<tr>
<td>Specimen 2</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>P</td>
</tr>
<tr>
<td>Specimen 3*</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

*NOTE: 3rd cigarette is tested only in self-extinguishing case.

Notes
A moderate emission of white smoke was observed during the test.

PASS

__________________________________________________________

PASS
RESULTS

CRITERIA OF IGNITION PROGRESSIVE SMOULDERING IGNITION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>Any test assembly that displays escalating combustion behavior so that it is unsafe to continue the test and active extinction is necessary.</td>
</tr>
<tr>
<td>b)</td>
<td>Any test assembly that smolders until it is largely consumed within the test duration.</td>
</tr>
<tr>
<td>c)</td>
<td>Any test assembly that smolders to the extremities of the specimen, viz, upper or lower margins, either side or to its full thickness, within the duration of the test.</td>
</tr>
<tr>
<td>d)</td>
<td>Any test assembly that smolders for more than one hour.</td>
</tr>
<tr>
<td>e)</td>
<td>Any test assembly that, on final examination, shows evidence of active smoldering.</td>
</tr>
</tbody>
</table>

Remark
A flaming ignition is considered to be the occurrence of any flames initiated by a smoldering source.
## RESULTS

MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE

<table>
<thead>
<tr>
<th>VALUE</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>VERY GOOD-EXCELLENT</td>
</tr>
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<td>4</td>
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</tr>
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</tr>
<tr>
<td>1</td>
<td>VERY POOR</td>
</tr>
</tbody>
</table>

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LIABILITY CLAUSES

1.- AITEX is liable only for the results of the methods of analysis used, as expressed in the report and referring exclusively to the materials or samples indicated in the same which are in its possession, the professional and legal liability of the Centre being limited to these. Unless otherwise stated, the samples were freely chosen and sent by the applicant.

2.- AITEX shall not be liable in any case of misuse of the test materials nor for undue interpretation or use of this document.

3.- The Offer and / or Order to which the applicant gives approval through signature and seal, constitutes the Legally Executable Agreement in which AITEX is responsible for safeguarding and guaranteeing the absolute confidentiality of the management of all the information obtained or created during the performance of the contracted activities.

4.- In the eventuality of discrepancies between reports, a check to settle the same will be carried out in the head offices of AITEX. Also, the applicants undertake to notify AITEX of any complaint received by them as a result of the report, exempting this Centre from all liability if such is not done, the periods of conservation of the samples being taken into account.

5.- AITEX is not responsible for the information provided by customers, which is reflected in the Report, and may affect the validity of the results.

6.- AITEX will provide at the request of the person concerned, the treatment of complaints procedure.

7.- AITEX is not responsible for an inadequate state of the sample received that could compromise the validity of the results, expressing such circumstance, in the test reports.

8.- AITEX may include in its reports, analyses, results, etc., any other evaluation which it considers necessary, even when it has not been specifically requested.

9.- When a Declaration of Conformity is requested, if not indicated otherwise, the decision rule will be applied according to ILAC-G8 & ISO 10576-1, in case of ambiguity, or indeterminacy.

10.- The uncertainties of tests, which are made explicit in the Results Report, have been estimated for a k = 2 (95% probability of coverage). If not informed, they are available to the client in AITEX.

11.- The original materials and rests of samples, not subject to test, will be retained in AITEX during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.

12.- This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.

13.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.

14.- The client must attend at all times, to the dates of the realization of the tests.

15.- According to Resolution EA (33) 31, the test reports must include the unique identification of the sample, and any brand or label of the manufacturer may be added. It is not allowed to re-issue test reports of untested sample names (references), they can only be re-issued for error correction or inclusion of omitted data that were already available at the time of the test. The laboratory cannot assume responsibility for declaring that the product with the new trade name / trademark is strictly identical to the one originally tested; This responsibility belongs to the client.