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LAB N° 0045 L

## TEST REPORT

Report nr.: **2002881-001**

Customer code: 5485

Report date: **04-giu-20**

**To:**  
**MARIO SIRTORI SPA**  
**via Papa Giovanni XXIII 10**  
**23845 COSTA MASNAGA (LC)**  
**Italia**

Acceptance code: **2002881**

Acceptance date: **29-mag-20**

Start test date: **29-mag-20**

End test date: **04-giu-20**

References: ---

To the attention of:

sig. Sergio Sala Crist

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Sampling by customer

Article description: **GEMMA PLUS**

Declared composition: **40% Viscose - 25% Cotton - 23% Acrylic - 7% Polyester - 5% Other Fiber**

Typology: **Fabric**

Return: **No requested**

The results reported herein refer exclusively to the tested sample as received and do not involve any product approval by Centro Tessile Serico. This document may not be reproduced other than in full, except with the prior written approval of the issuing Laboratory. The informations as Article Description, Declared Composition and Tipology listed above are data supplied by the Customer for which this Laboratory declines any responsibility.

TEST	M.U.	RESULTS
<b>15066 UPHOLSTERY FURNITURE: assessment of the ignitability by SMOULDERING CIGARETTE</b>		
<b>Method:</b> TB 117: 2013		
<b>Instrument:</b> Mock-up Tester		
Test executed on:		COVER FABRIC
Ignition source applied:		*
SMOULDERING CIGARETTE		*
Materials of test assembly:		
Upholstery filling: NON fire retardant polyurethane foam with a density of 28 kg/m <sup>3</sup>		
Inner cover: -		
Outer cover: SEE ARTICLE DESCRIPTION		
TEST RESULT:		PASS
Note: to assess the ignitability of this sample, the test has been carried out using a NON fire-retardant polyurethane foam with a density of 28 kg/m <sup>3</sup> as filling of the upholstered seating. The test result could be different using another type of filling material.		
Annex n.:		1F

Details of the test results related to each specimen can be seen in the annex of this test report.

(\*) = the tests marked with asterisk are not accredited by Accredia.

Annex n. 1F to test report n. 2002881-001

## DETAILS OF TEST RESULTS

Test executed according to TB 117:2013

**Requirements, Test procedure and Apparatus for testing the Smolder Resistance of Materials used in Upholstered Furniture**

Sample description: **GEMMA PLUS**

Declared composition: **40% Viscose - 25% Cotton - 23% Acrylic - 7% Polyester - 5% Other Fiber**

Conditioning of test specimen and ignition source (SRM 1196 cigarette): **24 h at 21 ± 3 °C, <55% r.h.**

Testing temperature and r.h.: **22°C, 61% r.h.**

Filling specification: **NON FIRE-RETARDANT polyurethane foam with a density of 28 kg/m<sup>3</sup>**

Date of test: **3/6/2020**

**Type of fabric: COVER FABRIC**

Specimen number	1	2	3
Total combustion of the cigarette (YES / NO)	YES	YES	YES
Time of progressive smouldering from placement of the source (min)	27	28	35
Size of the damage (mm)	23	24	26
Mock-up test specimen transitions to open flaming (YES / NO)	NO	NO	NO
<b>CIGARETTE TEST RESULT (PASS/FAIL)</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

### Cover Fabric Classification (ref. TB 117:2013)

A single mock-up test specimen fails to meet the requirements if any of the following criteria occurs:

- The mock-up test specimen continues to smolder after the 45 minute test duration;
- A char in any direction more than 45 mm develops on the cover fabric
- The mock-up test specimen transitions to open flaming.

2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-ups are no longer smoldering.

3. If more than one initial specimen fails, the cover fabric fails the test.

4. If any one of the three initial specimens fails, repeat the test on additional three specimens.

5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

*The following test result 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 material in use.*

*Upholstery cover fabrics that fail the cover fabric test described in Section 1 can be used in upholstered furniture if a barrier (interliner) material that passes the test method described in Section 2 is used. When a barrier is required, the barrier material must cover all sides and top of the seating cushion(s). Exceptions: Non-reversible and non-detachable seating cushions do not require the use of the barrier material on the underside of the seating cushion.*

The probability that the criteria represent the true observation is equal to 95%.

The expanded uncertainty is calculated by multiplying the combined standard uncertainty for a coverage factor  $k = 2$ , which for a normal distribution leads to a confidence level of approximately 95%.

Technical Head

Enrica Baldini

