Łukasiewicz
Lodz Institute of Technology

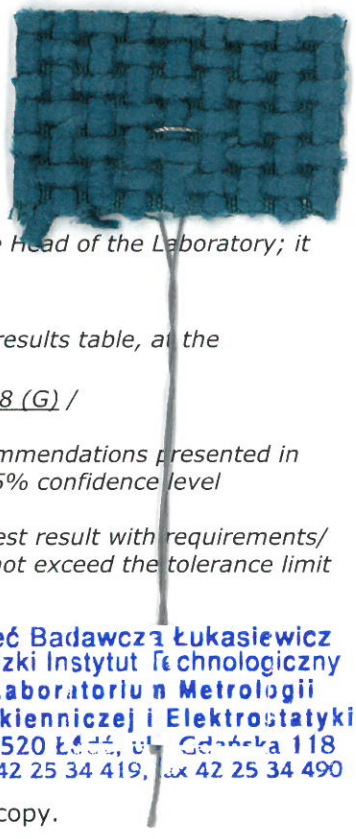
Laboratory of Textile Metrology and Electrostatics
Łukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str.,
Laboratory: 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419
e-mail: *beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl*

ilac-MRA

PCA Polskie Centrum Akredytacji BADANIA
AB 164

TEST REPORT NO. BL-ME 526.1.3 / 2023 / G / A

1. **Test ordered by: TOPTEXTIL Sp. z o.o.**
   34-100 Wadowice, ul. Mickiewicza 29
2. **Name and description of tested material** [X]: the sample**: the upholstery fabric BONITA, raw material: 100% polyester**
3. **Date of receiving material for testing:** 2023-08-21
4. **Date of test performance:** 2023-09-14
5. **Samples taken by:** [X] correct sample size in appropriate state for testing, delivered by The Client without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Violeta Jarzyna

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5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/ specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statemen's rules given by Client could be allowed.

Sieć Badawcza Łukasiewicz
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Laboratorium Metrologii
Włókienniczej i Elektrostatyki
90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 419, fax 42 25 34 490

Test Report date: 2023-09-28
Number of Test Report 's copies: 3
Test Report handed to:
1) TOPTEXTIL Sp. z o.o. - 2 copy
2) Laboratory of Textile Metrology and Electrostatics location: 118 Gdańska str. - 1 copy.

Test Report prepared by:
Stanisława Wróbel, M.Sc. Eng

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Witkowska

TEST REPORT NO. BL-ME 526.1.3 / 2023 / G / A

Parameter		Value	Remarks
Propensity to surface pilling, degree	the number of rubs	the abradant the standard woolen fabric	PN-EN ISO 12945-2:2021-04 PN-EN ISO 12945-4:2021-04 load: 415±2 g, the number of testing specimens: 3, the number of assessment persons: 3, *Assessment scale:* **5** - without change, **1**- intensive pilling on the whole area of sample.
	125	5	
	500	5	
	1 000	5	
	2 000	5 **without change**	
	5 000	5	
	7 000	4-5 partially formed pille/without change	
Propensity to surface fuzzing, degree	the number of rubs	the abradant the standard woolen fabric	PN-EN ISO 12945-2:2021-04 PN-EN ISO 12945-4:2021-04 load: 415±2 g, the number of testing specimens: 3, the number of assessment persons: 3, *Assessment scale:* **5** - without change, **1**- strong fuzzing on the whole area of sample.
	125	5	
	500	5	
	1 000	5	
	2 000	5 **without change**	
	5 000	5	
	7 000	4-5 slight surface fuzzing/without change	
Propensity to surface matting, degree	the number of rubs	the abradant the standard woolen fabric	PN-EN ISO 12945-2:2021-04 PN-EN ISO 12945-4:2021-04 load: 415±2 g, *Assessment scale:* **5** - without change, **1**- strong matting on the whole area of sample.
	125	not applicable	
	500		
	1 000		
	2 000		
	5 000		
	7 000		
Tests conditions: Acclimatization and testing according to PN-EN ISO 139:2006 + A1:2012 temp. (20 ± 2)^{0}C, humidity (65 ± 4) %			

According to standard PN-EN 14465:2005+A1:2007 *"Textiles. Upholstery fabrics. Specification and methods of test"*, **the upholstery fabric BONITA** was classified as:
- **Level A** in reference to the pilling, fuzzing (Level A: degree ≥ 4-5, assessment after 2 000 rubs)

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK

dr inż. Beata Witkowska

The end of Test Report

Łukasiewicz
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Laboratory of Textile Metrology and Electrostatics
Łukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str.,
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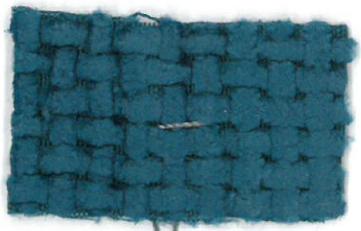
beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl

TEST REPORT NO. BL-ME 526.1.4 / 2023 / G

1. **Test ordered by: TOPTEXTIL Sp. z o.o.**
   34-100 Wadowice, ul. Mickiewicza 29
2. **Name and description of tested material** [X]: the sample**: the upholstery fabric BONITA, raw material: 100% polyester**
3. **Date of receiving material for testing:** 2023-08-21
4. **Date of test performance:** 2023-09-11
5. **Samples taken by:** [X] correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table

Results of Laboratory Tests

see page 2/2



Test performed by: ELżbieta Olczak

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3. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15(B).
4. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statement's rules given by Client could be allowed.

Sieć Badawcza Łukasiewicz
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Laboratorium Metrologii
Włókienniczej i Elektrostatyki
90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 4. fax 42 25 34 490

Test Report date: 2023-09-28
Number of Test Report 's copies: 3
Test Report handed to:
1) TOPTEXTIL Sp. z o.o. - 2 copies
2) Laboratory of Textile Metrology and Electrostatics location: 118 Gdańska str. - 1 copy.

Test Report prepared by:
Stanisława Wróbel M.Sc. Eng

Person authorizing the Test Report:
LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Witkowska

TEST REPORT NO. BL-ME 526.1.4 / 2023 / G

Parameter	Value	Remarks
Resistance to drawing out the threads for longitudinal direction, degree	**4 - 5**	PN-79/P-04664 threads: Shirley ICI Mace snag tester, England, number of the template used for sewing: 2, number of the roller revolutions: 300, number of tested specimens: 2 for each direction the number of assessment persons: 3 Assessment according to photographic standard: **degree 5:** very good resistance to drawing out the threads (without puffs), **degree 4:** good resistance to drawing out the threads, **degree 3:** sufficient resistance to drawing out the threads, **degree 2:** insufficient resistance to drawing out the threads, **degree 1:** very poor resistance to drawing out the threads.
Resistance to drawing out the threads for cross direction, degree	**4 - 5**	
Tests conditions: Acclimatization and testing according to PN-EN ISO 139:2006 + A1:2012 temp. (20 ± 2)^{0}C, humidity (65 ± 4) %		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Witkowska

The end of Test Report

Łukasiewicz
Lodz Institute of Technology

Laboratory of Textile Metrology and Electrostatics
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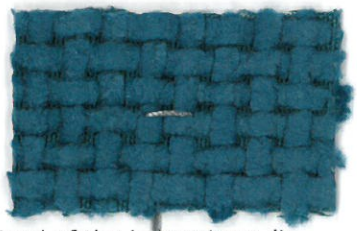
e-mail: *beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl*

ilac-MRA

PCA Polskie Centrum Akredytacji BADANIA
AB 164

TEST REPORT NO. BL-ME 526.1.2 / 2023 / G / A

1. **Test ordered by: TOPTEXTIL Sp. z o.o.**
   34-100 Wadowice, ul. Mickiewicza 29
2. **Name and description of tested material** [X]: the sample**: the upholstery fabric BONITA, raw material: 100% polyester**
3. **Date of receiving material for testing:** 2023-08-21
4. **Date of test performance:** 2023-09-21÷26
5. **Samples taken by:** [X] correct sample size in appropriate state for testing, delivered by The Client without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Violeta Jarzyna

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Sieć Badawcza Łukasiewicz
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Laboratorium Metrologii
Włókienniczej i Elektrostatyki
90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 419, fax 42 25 34 490

Test Report date: 2023-09-28
Number of Test Report 's copies: 3
Test Report handed to:
1) TOPTEXTIL Sp. z o.o. - 2 copy
2) Laboratory of Textile Metrology and Electrostatics location: 118 Gdańska str. - 1 copy.

Test Report prepared by:
Stanisława Wróbel, M.Sc. Eng

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Witkowska

TEST REPORT NO. BL-ME 526.1.2 / 2023 / G / A

Parameter		Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007 the abradant: the standard woollen fabric, the nominal pressure used in the test: **12 kPa,** magnification factor in the magnifying device: 8, in holders used foam.
	1 specimen	60 000	
	2 specimen	60 000	
	3 specimen	60 000	
	4 specimen	60 000	
	Total abrasion resistance (the lowest individual result)	**60 000**	
Criterion of breakdown: in a chenille fabric – three threads are completely broken or when chenille pile is fully worn off.			
Tests conditions: Acclimatization and testing according to PN-EN ISO 139:2006 + A1:2012, temp. (20 ± 2)^{0}C, humidity (65 ± 4) %			

According to standard PN-EN 14465:2005+A1:2007 *"Textiles. Upholstery fabrics. Specification and methods of test"*, **the upholstery fabric BONITA** was classified as:
- **Level A** in reference to the abrasion resistance (Level A: ≥ 35 000 rubs).

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK

dr inż. Beata Witkowska

The end of Test Report

Łukasiewicz
Lodz Institute of Technology

Laboratory of Textile Metrology and Electrostatics
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90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str.,
Laboratory: 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142,
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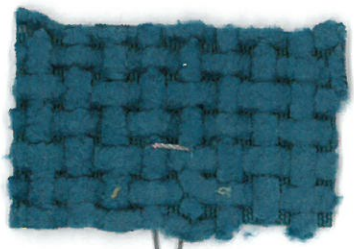
beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl

TEST REPORT NO. BL-ME 526.1.5 / 2023 / G

1. **Test ordered by: TOPTEXTIL Sp. z o.o.**
   34-100 Wadowice, ul. Mickiewicza 29
2. **Name and description of tested material** [x]: the sample**: the upholstery fabric BONITA, raw material: 100% polyester**
3. **Date of receiving material for testing:** 2023-08-21
4. **Date of test performance:** 2023-09-07
5. **Samples taken by:** [x] correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. **Tests carried out according to:** methods presenting in testing table

Results of Laboratory Tests



see page 2/2

Test performed by: ELżbieta Olczak

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Sieć Badawcza Łukasiewicz
Łódzki Instytut Technologiczny
Laboratorium Metrologii
Włókienniczej i Elektrostatyki
90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 419, fax 42 25 34 490

Test Report date: 2023-09-28
Number of Test Report 's copies: 3
Test Report handed to:
1) TOPTEXTIL Sp. z o.o. - 2 copies
2) Laboratory of Textile Metrology and Electrostatics location: 118 Gdańska str. - 1 copy.

Test Report prepared by:
Stanisława Wróbel M.Sc. Eng

Person authorizing the Test Report:
LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Witkowska

TEST REPORT NO. BL-ME 526.1.5 / 2023 / G

Parameter	Value	Remarks
The average bursting strength, kPa	**800 ± 25**	PN-EN ISO 13938-1:2020-05
- individual results	760; 700; 800; 840; 800	number of tested specimens: 5, the test area: 50 cm^2
Coefficient of variation,%	3,5	
The average bursting distension, mm	**26 ± 1**	
- individual results	26; 26; 26; 28; 26	
Coefficient of variation,%	4,0	
Tests conditions: Acclimatization and testing according to PN-EN ISO 139:2006 + A1:2012 temp. (20 ± 2)^{0}C, humidity (65 ± 4) %		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK
dr inż. Beata Wilkowska

The end of Test Report

Łukasiewicz
Lodz Institute of Technology

Laboratory of Chemical Instrumental Analysis

Łukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Sklodowskiej-Curie Str., phone 48 42 307-09-01
Laboratory:
92-103 Lodz, 5/15 Brzezinska Str.
phone No +48 42 61-63-130 (128), fax +48 42 61-63-131
e-mail: agnieszka.lisiak-kucinska@lit.lukasiewicz.gov.pl,
gabriela.palucka@lit.lukasiewicz.gov.pl

AB 077

Łódź, 13th September 2023

L-490/2023

TEST CERTIFICATE No BL-AI 470/829/2023/A/I

1. **Name and address of the principal X):** Toptextil Sp. z o.o.
   ul. Mickiewicza 29, 34-100 Wadowice
2. **Subject of study X):** sample – furniture upholstery fabric BONITA, raw material composition 100 % polyester
3. **Date of receiving sample for testing:** 17.08.2023
4. **Date of the test conducting:** 23.08 - 06.09.2023
5. **Sampling:** sample in a proper size, in a proper condition for tests, supplied by the customer

RESULTS OF THE TESTS

Tested feature	Result of the test [degree]	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
				A	B	C
Colour fastness to: - *artificial light* 1)	a/ 4-5	PN-EN ISO 105-B02:2014-11 Method 2	- device: Xenotest Alpha + - light conditions: A1 - radiation measurement in the range 300-400 nm - sample rotation was not applied	≥ 6	≥ 5	≥ 4

1) Colour fastness according to "Blue scale", indicator "8" means – no change in colour, indicator "1" means – big change in colour
a/ change in colour of the sample

Remarks:
1. Test results refer only to the tested material.
2. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
3. X) Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Test conducted by:
Marta Łatwińska PhD

Authorized by:
LABORATORIUM CHEMICZNYCH ANALIZ INSTRUMENTALNYCH
LIDER OBSZARU/KIEROWNIK
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Lodz Institute of Technology – BL-AI - 1 copy

- THE END -

Łukasiewicz
Lodz Institute of Technology

Laboratory of Chemical Instrumental Analysis

Łukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Sklodowskiej-Curie Str., phone 48 42 307-09-01
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e-mail: agnieszka.lisiak-kucinska@lit.lukasiewicz.gov.pl,
gabriela.palucka@lit.lukasiewicz.gov.pl

AB 077

Łódź, 13th September 2023

L-490/2023

TEST CERTIFICATE No BL-AI 470/829/2023/A

1. **Name and address of the principal X):** Toptextil Sp. z o.o.
   ul. Mickiewicza 29, 34-100 Wadowice
2. **Subject of study X):** sample – furniture upholstery fabric BONITA, raw material composition 100 % polyester
3. **Date of receiving sample for testing:** 17.08.2023
4. **Date of the test conducting:** 12.09.2023
5. **Sampling:** sample in a proper size, in a proper condition for tests, supplied by the customer

RESULTS OF THE TESTS

Tested feature	Result of the test [degree]	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007 A	B	C
Colour fastness to:		PN-EN ISO 105-X12:2016-08	- time of acclimatisation: 4 h - temperature of the test: 24.5 °C - humidity of the test: 52.2 % - rubbing pick: Ø 16 ± 0.1 mm - push: 9 ± 0.2 N - degree of moisturising of the rubbing fabric: 100 %			
- *dry rubbing* 1)						
warp	a/ 4-5			≥ 4-5	≥ 4	≥ 3-4
weft	a/ 4-5					
- *wet rubbing* 1)						
warp	a/ 4-5			≥ 3-4	≥ 3	≥ 2-3
weft	a/ 4-5					

1) Colour fastness according to "Grey scale", indicator "5" means – no change in colour in cotton rubbing fabric, indicator "1" means – big change in colour
a/ staining - the cotton rubbing fabric

Remarks:
1. Test results refer only to the tested material.
2. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
3. X) Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Test conducted by:
Marta Łatwińska PhD

Authorized by:
LABORATORIUM CHEMICZNYCH ANALIZ INSTRUMENTALNYCH
LIDER OBSZARU/KIEROWNIK
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Lodz Institute of Technology – BL-AI - 1 copy

- THE END -

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Lodz Institute of Technology

Laboratory of Flammability Testing
Lukasiewicz Research Network – Lodz Institute of Technology,
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Laboratory: 90-520 Lodz, 118 Gdanska Str., phone +48 42 2534435 (436),
fax +48 42 2534490
e-mail: krzysztof.kostanek@lit.lukasiewicz.gov.pl

AB 029

TEST CERTIFICATE No 230 / BL - PW / 23

Test method:

PN-EN 1021-1:2014-12 Furniture. Assessment of the ignitability of upholstered furniture. Part 1: Ignition source smouldering cigarette.

Orderer*:

Toptextil Sp. z o.o.
ul. Mickiewicza 29
34-100 Wadowice

Subject of testing*:

Upholstery composite:
- upholstery fabric named BONITA; composition: 100% polyester,
- flame-retardant foam RF 30120

Testing sample with the correct size, in appropriate state for testing, supplied by the Orderer with its characteristic and without the Sampling Protocol.

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering cigarette	**Neither progressive smouldering ignition nor flaming ignition occurred.**

The above 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 the materials in use.

Tests performed by:

Bartkowicz
Paulina Bartkowicz MSc.

Test Certificate authorized by

LABORATORIUM BADAŃ PALNOŚCI WYROBÓW
KIEROWNIK
dr inż. Krzysztof Kostanek

Sample received on: 16.08.2023
Test performed on: 18.08.2023
Test Certificate issued on: 18.08.2023

NOTES:
1. The Testing results refer only to the tested sample.
2. Test Certificate consists of 2 pages.
3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.
5. *Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
Testing conditions: temperature 23 °C; humidity 71 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the PN-EN 1021-1:2014-12 standard.

Upholstery composite characteristic:

upholstery composite:
- upholstery fabric named BONITA composition: 100% polyester,
- flame-retardant foam RF 30120.

Test method according to PN-EN 1021-1:2014-12

<table>
<tr><th colspan="2" rowspan="2">Criteria</th><th colspan="3">Cigarette</th><th rowspan="2">Remarks</th></tr>
<tr><th>1</th><th>2</th><th>3</th></tr>
<tr><td rowspan="6">Smouldering criteria</td><td>Unsafe escalating combustion</td><td>NO</td><td>NO</td><td>-</td><td rowspan="4">Maximum cigarette smouldering time:

16 minutes 41 seconds</td></tr>
<tr><td>Test assembly consumed</td><td>NO</td><td>NO</td><td>-</td></tr>
<tr><td>Smoulders to extremities</td><td>NO</td><td>NO</td><td>-</td></tr>
<tr><td>Smoulders through thickness</td><td>NO</td><td>NO</td><td>-</td></tr>
<tr><td>Smoulders more than 1 hour</td><td>NO</td><td>NO</td><td>-</td><td rowspan="2">Maximum upholstery composite destruction:</td></tr>
<tr><td>In final examination, presence of active smouldering</td><td>NO</td><td>NO</td><td>-</td></tr>
<tr><td rowspan="3">Flaming criteria</td><td rowspan="3">Occurrence of flames</td><td rowspan="3">NO</td><td rowspan="3">NO</td><td rowspan="3">-</td><td colspan="3">horizontal [mm]</td><td colspan="3">vertical [mm]</td></tr>
<tr><td>length</td><td>width</td><td>depth</td><td>length</td><td>width</td><td>depth</td></tr>
<tr><td>70</td><td>13</td><td>9</td><td>67</td><td>11</td><td>6</td></tr>
</table>

Result of testing: Neither progressive smouldering ignition nor flaming ignition occurred.

END OF THE TEST CERTIFICATE