

Laboratory of Flammability Testing

The Łukasiewicz Research Network - Textile Research Institute,

92-103 Lodz, 5/15 Brzezinska Str.

Laboratory: 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534435 (436), fax 48 42 2534490

e-mail: mszejna@iw.lodz.pl



AB 029

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No539 / BP / 19

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. Wadowicka 12
30-415 Kraków

Subject of testing*:

Upholstery composite:

- upholstery fabric named UTTARIO VELVET, composition: 100% Polyester,
- T-3037 SG polyurethane foam, self-extinguish

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

Sieć Badawcza Łukasiewicz-
INSTYTUT WŁÓKIENICTWA
LABORATORIUM
BADAŃ PALNOŚCI WYROBÓW
ul. Gdańska 118, 90-520 Łódź

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:

Kostanek
Krzysztof Kostanek Ph.D.

Test Certificate authorized by

Laboratorium Badań Palności Wyrobów
KIEROWNIK

Sample received on: 04.11.2019
Test performed on: 11.12.2019
Test Certificate issued on: 11.12.2019

mszejna
mgr Inż. Małgorzata Szejna

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.

The Testing Laboratory accredited by the Polish Centre for Accreditation (PCA), No AB 029.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
 Testing conditions: temperature 22°C; humidity 31 %

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 UTTARIO VELVET, composition: 100% Polyester,
- T-3037 SG polyurethane foam, self-extinguish

Criteria		Cigarette			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 14 minutes 32 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	-						
	Smoulders through thickness	NO	NO	-						
	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:					
Flaming criteria	Occurrence of flames	NO	NO	-						
					length	width	depth	length	width	depth
					70	15	11	70	17	6

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

END OF THE TEST CERTIFICATE

**Laboratory of Chemical Testing
 and Instrumental Analysis**

The Łukasiewicz Research Network – Textile Research Institute
 92-103 Łódź, 5/15 Brzezinska Str.
 phone no. +48 42 6163130 (128), fax +48 42 6163131
 e-mail: jpiestrzeniewicz@iw.lodz.pl, alisiak@iw.lodz.pl

Łódź, 16th December 2019

L-527/2019

TEST CERTIFICATE No. BCH 474/1210/2019/A

1. Name and address of the principal ^{X)}: „TOPTEXTIL” Sp. z o.o.
 ul. Wadowicka 12, 30-415 Kraków
2. Subject of study ^{X)}: sample 1 – furniture upholstery product UTTARIO VELVET, declared material composition: 100 % polyester
3. Date of receiving sample for testing: 31st October 2019
4. Date of the tests conducting: 11th December - 12th December 2019
5. Sampling: sample in a proper size, in a proper condition for research, supplied by the customer

RESULTS OF THE TESTS

Tested feature	Result of the test [degree]	Reference document	Technical specifications	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
				A	B	C
Colour fastness to: - <i>dry rubbing</i> : ¹⁾ longitudinal direction cross direction - <i>wet rubbing</i> : ¹⁾ longitudinal direction cross direction	a/ 4-5	PN-EN ISO 105-X12:2016-08	Acclimatization conditions: - temperature: 20 ± 2 °C - relative humidity: 65 ± 4 % - time of acclimatisation: 4 h Test conditions: - ambient temperature and humidity - rubbing pick: Ø 16 ± 0,1 mm - push: 9 ± 0,2 N - degree of moisturising of the rubbing fabric: 95-100 %	≥ 4-5	≥ 4	≥ 3-4
	a/ 4-5					
	a/ 4-5			≥ 3-4	≥ 3	≥ 2-3
	a/ 4-5					

¹⁾ colour fastness according to “Grey scale”, indicator “5” means – no change in colour and in staining adjacent 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.
^{Y)} The decision-making principle in the event that the principal requires a statement of compliance – in accordance with the Principle of Acceptance described in Procedure No. 7.1:
 - **acceptance** (compliant) – the results are within the tolerance limit. The risk of incorrect acceptance is up to 50% in the case of results close to the tolerance limit;
 - **rejection** (incompatible) – the results obtained are outside the tolerance limit. The risk of incorrect rejection is 50% in the case of results close to the tolerance limit.
4. Total number of pages of the test certificate: 2.

Tests authorized by:

LABORATORIUM BADAŃ CHEMICZNYCH
I ANALIZ INSTRUMENTALNYCH
Z-ca Kierownika Technicznego
[Signature]
mgr inż. Zdzisława Mrozińska

Confirmed by:

LABORATORIUM BADAŃ CHEMICZNYCH
I ANALIZ INSTRUMENTALNYCH
ZASTĘPCA KIEROWNIKA
[Signature]
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies: 3

The test certificate receive:

- Customer - 1 copy
- The ŁUKASIEWICZ Research Network – Textile Research Institute – BM - 1 copy
- The ŁUKASIEWICZ Research Network – Textile Research Institute – BCH - 1 copy

- THE END -

Laboratory of Testing

Textile Raw Materials and Fabrics

The Łukasiewicz Research Network – Textile Research Institute,
92-103 Łódź, 5/15 Brzezińska Str., phone 48 42 6163142, fax 48 42 6792638
90-520 Łódź, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490
e-mail: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl

TEST CERTIFICATE NO. BM 723.1 / 2019 / B

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material:** the sample: **the upholstery product UTTARIO VELVET**, declared raw material composition: 100% Polyester
3. **Date of receiving material for testing:** 2019-10-28
4. **Date of test performance:** 2019-11-19
5. **Samples taken by:** 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

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; it can be copied only as a whole document.*
3. *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 $k = 2$.*

Certificate date: 2019-12-12

Number of Certificate copies: 2

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Wadowice - 1 copy,
- 2) Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy.

Certificate prepared by:

Patrycja Bąk

Sieć Badawcza Łukasiewicz-
INSTYTUT WŁÓKIENICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezińska 5/15

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature:

Zastępca Kierownika
Laboratorium Badań Surowców
i Wyrobów Włókienniczych

mgr inż. Jerzy Andrysiak

-verte-

TEST CERTIFICATE NO. BM 723.1 / 2019 / B

Parameter	Value	Remarks
Seam slippage resistance, mm: <u>Longitudinal direction</u> The mean value of resistance to perforation in the seam for longitudinal direction, mm - individual results, mm <u>Cross direction</u> The mean value of resistance to perforation in the seam for cross direction, mm - individual results, mm	 3 ± 0 3; 3; 2,5; 2,5; 3 3 ± 0 3; 3; 3,5; 3; 4	PN-EN ISO 13936-2:2005 the conditioned sample tensile tester: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110 the number of stitch: 32±2/100 mm rate of extension: 50 mm/min. number of test specimens: 5

_____ **The end of Test Certificate** _____

Person authorizing the Test Certificate

Zastępca Kierownika
 Laboratorium Badań Surowców
 i Wyrobów Włókienniczych

mgr inż. Jerzy Andrysiak



AB 164

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS
Testing Laboratory accredited by the Polish Centre for Accreditation

TEST CERTIFICATE NO. BM 723.2 / 2019 / B / A

- 1. Test ordered by:** „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
- 2. Name and description of tested material:** the sample: **the upholstery product UTTARIO VELVET**, declared raw material composition: 100% Polyester
- 3. Date of receiving material for testing:** 2019-10-28
- 4. Date of test performance:** 2019-11-15
- 5. Samples taken by:** 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

Test performed by: Elżbieta Olczak

- 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; it can be copied only as a whole document.*
- 3. Test Certificate presents test results included within accreditation field of testing.*
- 4. Test results not included in accreditation scope, if occur, are marked with *) in the test results table, at the parameter name.*
- 5. 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 $k = 2$.*

Certificate date: 2019-12-12

Number of Certificate copies: 2

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Wadowice - 1 copy
- 2) Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy

Certificate prepared by:

Patrycja Bąk

Sieć Badawcza Łukasiewicz-
INSTYTUT WŁÓKIENICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezinska 5/15

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature:

Zastępca Kierownika
Laboratorium Badań Surowców
i Wyrobów Włókienniczych

mgr inż. Jerzy Andrysiak


-verte-

TEST CERTIFICATE NO. BM 723.2 / 2019 / B / A

Parameter		Value	Remarks
Propensity to surface fuzzing and pilling, grade	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method) the conditioned sample, the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;
	1 000	4 – 5	
	2 000	4 – 5 Slight surface fuzzing	
	5 000	4 - 5	
<p><u>Evaluation</u> according to PN-EN 14465:2005+A1:2007: A category: grade ≥ 4 – 5; B category: grade 4; C category: grade 3 – 4; D category: grade 3</p>			

_____ **The end of Test Certificate** _____

Person authorizing the Test Certificate:


 Zastępca Kierownika
 Laboratorium Badań Surowców
 i Wyrobów Włókienniczych
 mgr inż. Jerzy Andrysiak



AB 164

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS
Testing Laboratory accredited by the Polish Centre for Accreditation

TEST CERTIFICATE NO. BM 723.3 / 2019 / B / A

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material:** the sample: **the upholstery product UTTARIO VELVET**, declared raw material composition: 100% Polyester
3. **Date of receiving material for testing:** 2019-10-28
4. **Date of test performance:** 2019-11-05÷08
5. **Samples taken by:** 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

Test performed by: Elżbieta Olczak

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; it can be copied only as a whole document.*
3. *Test Certificate presents test results included within accreditation field of testing.*
4. *Test results not included in accreditation scope, if occur, are marked with *) in the test results table, at the parameter name.*
5. *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 $k = 2$.*

Certificate date: 2019-12-12

Number of Certificate copies: 2

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Wadowice - 1 copy
- 2) Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy

Certificate prepared by:

Patrycja Bąk

Sieć Badawcza Łukasiewicz-
INSTYTUT WŁÓKIENICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezińska 5/15

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature: Zastępca Kierownika
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mgr inż. Jerzy Andrysiak

-verte-

TEST CERTIFICATE NO. BM 723.3 / 2019 / B / A

Parameter		Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A the conditioned sample, the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa, magnification factor in the magnifying device: 8. Criterion of <u>destruction of the testing specimens in accordance with that standard:</u> cut pile fabric – pile spots of 5 mm ² are fully worn off, without any damage to rows / columns threads in knitted fabric.
	1 specimen	45 000	
	2 specimen	45 000	
	3 specimen	50 000	
	4 specimen	50 000	
Total abrasion resistance (the lowest individual result)		45 000	
Evaluation: according to PN-EN 14465:2005 + A1:2007: A category: number of rubs ≥ 45 000 rubs, B category: number of rubs: 25 000 ÷ 40 000, C category: number of rubs: 10 000 ÷ 20 000			

_____ **The end of Test Certificate** _____

Person authorizing the Test Certificate:

Zastępca Kierownika
 Laboratorium Badań Surowców
 i Wyrobów Włókienniczych

mgr inż. Jerzy Andrysiak

Laboratory of Testing

Textile Raw Materials and Fabrics

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90-520 Łódź, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490
e-mail: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl

TEST CERTIFICATE NO. BM 723.4 / 2019 / B

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material:** the sample: : **the upholstery product UTTARIO VELVET**, declared raw material composition: 100% Polyester
3. **Date of receiving material for testing:** 2019-10-28
4. **Date of test performance:** 2019-12-09
5. **Samples taken by:** 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: Elzbieta Olczak

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; it can be copied only as a whole document.*
3. *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 $k = 2$.*

Certificate date: 2019-12-12

Number of Certificate copies: 2

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Wadowice - 1 copy,
- 2) Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy.

Certificate prepared by:

Patrycja Bąk

Sieć Badawcza Łukasiewicz-
INSTYTUT WŁÓKIENICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezinska 5/15

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature:

Zastępca Kierownika
Laboratorium Badań Surowców
i Wyrobów Włókienniczych

mgr inż. Jerzy Andrysiak

TEST CERTIFICATE NO. BM 723.4 / 2019 / B

Parameter	Result	Test method
Resistance to drawing out the threads for longitudinal direction, degree	3	PN-79/P-04664 conditioned sample, device for testing resistance to drawing out the 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
Resistance to drawing out the threads for cross direction, degree	3 – 4	<u>Assessment according to photographic standard:</u> 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.

_____ **The end of Test Certificate** _____

Person authorizing the Test Certificate

Zastępca Kierownika
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