



Łukasiewicz

Lodz Institute of Technology



AB 164

Laboratory of Textile Metrology and Electrostatics

Lukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str.,
Laboratory: 92-103 Lodz, 5/15 Brzezińska Str., phone 48 42 6163142, fax 48 42 6792638
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490
e-mail: beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl

TEST REPORT NO. BL-ME 806.1 / 2023 / B / A

- 1. Test ordered by:** ^x „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
- 2. Name and description of tested material:** the sample: ^x **the upholstery woven fabric TRACY**, declared raw material composition: 95% Polyester, 5% Cotton.
- 3. Date of receiving material for testing:** 2023-11-16
- 4. Date of test performance:** 2023-12-13÷15
- 5. Samples taken by:** ^x correct sample size in appropriate state for testing, taken by the Client and delivered with/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 Report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
3. Test Report 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. 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 statement's rules given by Client could be allowed.



Sieć Badawcza Łukasiewicz
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 Włókienniczej i Elektrostatyki
 92-103 Łódź, ul. Brzezińska 5/15
 tel. 42 61 63 1 1 2, fax 42 61 63 131

Test Report date: 2023-12-19

Number of Test Report 's copies: 2

Test Report handed to:

- 1) „TOPTEXTIL” Sp. z o.o., Wadowice - 1 copy,
- 2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:

Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 806.1 / 2023 / B / A

Parameter	Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4 - 5
	1 specimen	30 000
	2 specimen	25 000
	3 specimen	35 000
	4 specimen	35 000
Total abrasion resistance (the lowest individual result)	25 000	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, 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> : chenille fabric – three threads are completely broken or the chenille pile is fully worn off (whatever comes first).
Evaluation: according to PN-EN 14465:2005 + A1:2007: A category: number of rubs ≥ 35 000 rubs, B category: number of rubs: 12 000 ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
 I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report



Łukasiewicz

Lodz Institute of Technology



AB 164

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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TEST REPORT NO. BL-ME 806.2 / 2023 / B / A

- 1. Test ordered by:** ^X „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
- 2. Name and description of tested material:** the sample: ^X **the upholstery woven fabric TRACY**, declared raw material composition: 95% Polyester, 5% Cotton.
- 3. Date of receiving material for testing:** 2023-11-16
- 4. Date of test performance:** 2023-12-04
- 5. Samples taken by:** ^X correct sample size in appropriate state for testing, taken by the Client and delivered with/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.
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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 in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2023-12-19

Number of Test Report 's copies: 2

Test Report handed to:

- 1) „TOPTEXTIL” Sp. z o.o., Wadowice - 1 copy,
- 2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:

Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

Sieć B: dawca Łukasiewicz
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tel. 42 61 63 142, fax 42 61 63 131

TEST REPORT NO. BL-ME 806.2 / 2023 / B / A

Parameter	Value	Test method	
Propensity to surface fuzzing, pilling or matting, grade - <u>pilling</u> the number of rubs	125	PN-EN ISO 12945-2:2021-04 PN-EN ISO 12945-4:2021-04 (modified Martindale method) sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, the abradant: the standard woolen fabric; number of test specimens: 3, number of evaluators: 3, mass of weight: (415 ± 2) g.	
	500		
	1 000		
	2 000		5 no change
	5 000		
	7 000		
	7 000		
- <u>fuzzing</u> the number of rubs	125		
	500		
	1 000		
	2 000		5 no change
	5 000		
	7 000		
	7 000		
- <u>matting</u> the number of rubs	125		
	500		
	1 000		4 - 5
	2 000		4 - 5 slight surface matting
	5 000		4 - 5
	7 000		4
	7 000		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
 I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report



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TEST REPORT NO. BL-ME 806.3 / 2023 / B / A

- 1. Test ordered by:** ^x „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
- 2. Name and description of tested material:** the sample: ^x **the upholstery woven fabric TRACY**, declared raw material composition: 95% Polyester, 5% Cotton.
- 3. Date of receiving material for testing:** 2023-11-16
- 4. Date of test performance:** 2023-12-13
- 5. Samples taken by:** ^x correct sample size in appropriate state for testing, taken by the Client and delivered with/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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6. Measurement uncertainty, if it is specified, has been determined according to the recommendations present 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 statement's rules given by Client could be allowed.

Test Report date: 2023-12-19

Number of Test Report 's copies: 2

Test Report handed to:

- 1) „TOPTEXTIL” Sp. z o.o., Wadowice - 1 copy,
- 2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:

Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
Z-CA KIEROWNIKA

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tel. 42 61 63 142 fax 42 61 63 131

TEST REPORT NO. BL-ME 806.3 / 2023 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm: <u>Warp</u> The mean value of seam slippage resistance for warp direction, mm - individual results, mm <u>Weft</u> The mean value of seam slippage resistance for weft direction, mm - individual results, mm	<p align="center">4 ± 1</p> 5; 4; 5; 3,5; 4,5 <p align="center">3 ± 0</p> 4; 3; 3; 4; 3	PN-EN ISO 13936-2:2005 sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, 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
Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: A category: ≤ 4 mm; B category: ≤ 6 mm; C category: ≤ 8 mm		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
 I ELEKTROSTATYKI
 Z-CA KIEROWNIKA
 mgr inż. Jerzy Andrysiak

_____ The end of Test Report _____



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e-mail: beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl

TEST REPORT NO. BL-ME 806.4 / 2023 / B

- 1. Test ordered by:**^x „TOPTEXTIL” Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
- 2. Name and description of tested material:**^x the sample: **the upholstery woven fabric TRACY**, declared raw material composition: 95% Polyester, 5% Cotton.
- 3. Date of receiving material for testing:** 2023-11-16
- 4. Date of test performance:** 2023-12-18
- 5. Samples taken by:**^x limited 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.
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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 results 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.

Test Report date: 2023-12-19

Number of Test Report 's copies: 2

Test Report handed to:

- 1) „TOPTEXTIL” Sp. z o.o., Wadowice - 1 copy
- 2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKNIARSKIEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

Sieć Badawcza Łukasiewicz
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tel. 42 61 63 14 14, fax 42 61 63 131

TEST REPORT NO. BL-ME 806.4 / 2023 / B

Parameter	Result	Test method
The mean of bursting strength, kPa	504 ± 20	PN-EN ISO 13938-1:2020-05 (hydraulic method) the sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, burst device: PSI-BURST, test area: 50 cm ² , time at burst: (20±5) s, number of test specimens: 5.
The mean of height at burst, mm	21 ± 1	

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report

Laboratory of Chemical Instrumental Analysis

Łukasiewicz Research Network – Lodz Institute of Technology,
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Laboratory:

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gabriela.palucka@lit.lukasiewicz.gov.pl

Łódź, 3rd January 2024

L-693/2023

TEST CERTIFICATE No BL-AI 664/1227/2023/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 TRACY, raw material
composition: 95 % polyester/5 % cotton
3. **Date of receiving sample for testing:** 17.11.2023
4. **Date of the test conducting:** 29.11 - 14.12.2023
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/ 6	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 Łisiak-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 -

Laboratory of Chemical Instrumental Analysis

Łukasiewicz Research Network – Lodz Institute of Technology,
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gabriela.palucka@lit.lukasiewicz.gov.pl

Łódź, 3rd January 2024

L-693/2023

TEST CERTIFICATE No BL-AI 664/1227/2023/A

- Name and address of the principal ^{x)}:** Toptextil Sp. z o.o.
ul. Mickiewicza 29, 34-100 Wadowice
- Subject of study ^{x)}:** sample – furniture upholstery fabric TRACY, raw material
composition: 95 % polyester/5 % cotton
- Date of receiving sample for testing:** 17.11.2023
- Date of the test conducting:** 02.01.2024
- 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: - dry rubbing ¹⁾		PN-EN ISO 105- X12:2016- 08	- time of acclimatisation: 4 h - temperature of the test: 19,4 °C - humidity of the test: 41,7 % - rubbing pick: Ø 16 ± 0,1 mm - push: 9 ± 0,2 N - degree of moisturising of the rubbing fabric: 100 %			
warp	a/ 5			≥ 4-5	≥ 4	≥ 3-4
weft	a/ 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:

- Test results refer only to the tested material.
- Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
- ^{x)} Data provided by the principal/customer.
- 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 -

Laboratory of Flammability Testing

Lukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str., phone +48 42 307 09 01
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AB 029

TEST CERTIFICATE No 350 / 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 TRACY; composition: 95% Polyester, 5% Cotton
- 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:


Paulina Bartkovicz MSc.

Test Certificate authorized by

LABORATORIUM BADAJ
PALNOŚCI WYROBÓW
KIEROWNIK TECHNICZNY

Aleksandra Rajkowska

Sample received on: 17.11.2023
Test performed on: 22.11.2023
Test Certificate issued on: 22.11.2023

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 22 °C; humidity 30 %

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 TRACY composition: 95% Polyester,5% Cotton
- flame-retardant foam RF 30120.

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

Criteria		Cigarette			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 17 minutes 50 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	-						
	Smoulders through thickness	NO	NO	-	Maximum upholstery composite destruction:					
	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-						
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mm]			vertical [mm]		
					length	width	depth	length	width	depth
					64	15	1	65	14	2

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

END OF THE TEST CERTIFICATE