

Laboratory of Flammability Testing

Lukasiewicz Research Network - Lodz Institute of Technology, 90-570 Lodz, 19/27 Marii Sklodowskiej-Curie Str., phone +48 42 307 09 01 Laboratory: 90-520 Lodz, 118 Gdanska Str., phone +48 42 2534435 (436), e-mail: krzysztof.kostanek@lit.lukasiewicz.gov.pl





AB 029

TEST CERTIFICATE No 55 / BL - PW / 24

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 ZORA; 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:

Test Certificate authorized by

32 Maril Paulina Bartkowicz MSc.

LABORATORIUM BADAŃ
PALNOŚCI WYROBÓW
KIEROWNIK TECHNICZNY
Qayway leksandra Rajkowska

16.02.2024 Sample received on: 19.02.2024 Test performed on: 20.02.2024 Test Certificate issued on:

NOTES:

1. The Testing results refer only to the tested sample.

Test Certificate consists of 2 pages.

Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing

The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.

*Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 \pm 2) °C; humidity (50 \pm 5) %; time 24 h

Testing conditions: temperature 21 °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 ZORA composition: 100% Polyester

- flame-retardant foam RF 30120.

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

Criteria		Cigarette			Remarks					
		1	2	3	Remarks					
	Unsafe escalating combustion	NO	NO	-	Maximum cigarette					
	Test assembly consumed	NO	NO	-		smouldering time:				
	Smoulders to extremities		NO	-						
Smouldering Smoulders through thickness		NO	NO		18 minutes 47 seconds					
criteria	criteria Smoulders more than 1 hour		NO	-						
In final examination, presence of active smouldering		NO	NO	1				uphols destruc		
Elemine.					horiz	ontal [[mm]	vert	ical [n	nm]
Flaming criteria	- c c		NO	1-	length 70	width 14	depth 4	length 68	width 13	depth 4

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

END OF THE TEST CERTIFICATE

John



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

TEST REPORT NO. BL-ME 95.6 / 2024 / B

- 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: The upholstery product ZORA, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-20
- 5. Samples taken by: Iimited 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 Report can be copied without written permission of the Head of the Laborator v; it can be copied only as a whole document.
- 3. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska
- 4. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document ILAC-G17:01/2021. 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 requirements/specification takes place, when the test results together with expanded uncertainty does not requirement given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2024-04-02

Number of Test Report 's copies: 2

Test Report handed to:

- 1) "TOPTEXTIL" Sp. z o.o., Wadowice 1 copy,
- 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 Bak

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ LELEKTRUSTATYKI Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

Page 1 of 2

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TEST REPORT NO. BL-ME 95.6 / 2024 / B

Parameter	Value	Remarks
The mean of bursting strength, kPa	750 ± 75	PN-EN ISO 13938-1:2020-05 (hydraulic method) sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H: 65% ± 4%,
The mean of height at burst, mm	23 ± 1	burst device: PSI-BURST, test area: 50 cm ² , time at burst: (20±5) s, number of test specimens: 5.

Evaluation according to PN-EN 14465:2005 + A1:2007:

requirements level: A category: ≥ 600 kPa; B category: ≥ 400 kPa; C category: ≥ 200 kPa

Person authorizing the Test Report

LABORATORIUM SETROLOGII WŁÓKIENNICZEJ
LEILKTROSJATYKI
Z-CA KIEROWNIKA

mgr inž. Jerzy Andrysiak

_____ The end of Test Report



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

TEST REPORT NO. BL-ME 95.5 / 2024 / 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 ZORA, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-12
- **5. Samples taken by:** Iimited 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 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 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 ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level in document factor k = 2.
- factor k = 2.

 5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the toperance limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2024-04-02 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.

Person authorizing the Test Report

Test Report prepared by:

Patrycja Bak

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr int. Jerzy Andrysiak

TEST REPORT NO. BL-ME 95.5 / 2024 / B

Parameter	Value	Remarks
Seam slippage resistance, mm: Longitudinal direction The mean value of resistance to perforation in the seam for longitudinal direction, mm - individual results, mm Cross direction	4 ± 0 4; 4; 4,5; 4,5; 4	PN-EN ISO 13936-2:2005 climate for conditioning sample and testing 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
The mean value of resistance to perforation in the seam for cross direction, mm - individual results, mm Evaluation according to PN-EN 14465:2	5 ± 0 5; 5; 5; 4,5; 5	

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTRYPIATYKI
Z-CA KLEWOWNIKA

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_____ The end of Test Report

requirements level: A category: ≤ 4 mm; B category: ≤ 6 mm; C category: ≤ 8 mm



Laboratory of Textile Metrology and Electrostatics

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AB 164

TEST REPORT NO. BL-ME 95.4 / 2024 / 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 product ZORA, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-11
- **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
- 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 document ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence levels of 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 in specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2024-04-02 **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 Bak

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKTROSTAJYKI
Z-CA KIEROWNIKA

Włókien

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mgr int. Jerzy Andrysiak

Form 7.8.1 Issue 2 X- information delivered by Client Page 1 of 2

Z-CA KIEROWNIKA

TEST REPORT NO. BL-ME 95.4 / 2024 / B / A

Parameter	/	Value	Test method
Propensity to surface pilling, fuzzing and matting, grade		1	PN-EN ISO 12945-2:2021-04 (modified Martindale method) PN-EN ISO 12945-4:2021-04
- pilling	number of		climate for sample conditioning and testing
	rubs	_	according to PN-EN ISO 139:2006 + A1:2012 temp. 20° C \pm 2 °C, R.H. 65% \pm 4%,
	125	5	abradant: standard woolen fabric,
	500	5	number of test specimens: 3, number of evaluators: 3,
	1 000	5	mass of weight: (415 ± 2) g.
	2 000	5	
	5 000	5	
	7 000	5 no change	
- fuzzing	number of		
	rubs 125	5	
	500	4 – 5	
	1 000	4 – 5	
	2 000	4	
	5 000	4	
	7 000	4 slight surface fuzzing	
- matting		not applicable	

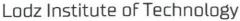
Person authorizing the Test Report

Z-CA KIBILOWNIKA

The end of Test Report mgr int. Jenry Andrystak

B category: grade 4; C category: grade 3 - 4; D category: grade 3





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





AB 164

TEST REPORT NO. BL-ME 95.3 / 2024 / 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: * The upholstery product ZORA, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-18÷25
- 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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- 7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/s specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance in the specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2024-04-02 Number of Test Report 's copies: 2

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- 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

ori

mgr inż. Jerzy Andrysiak

Page 1 of 2

TEST REPORT NO. BL-ME 95.3 / 2024 / B / A

	Parameter		Remarks
	color change after 3 000 rubs, grade of grey scale	4	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A
Abrasion resistance,	1 specimen	80 000	climate for conditioning sample and testing
number of rubs	2 specimen	90 000	according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, the abradant: the standard woolen fabric,
	3 specimen	80 000	the nominal pressure used in the test: 12 kPa, magnification factor in the magnifying
	4 specimen	90 000	device: 8. Criterion of <u>destruction of the testing specimens</u> in accordance with that standard:
	Total abrasion resistance (the lowest individual result)	80 000	flat woven fabric – three threads completely broken.

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,

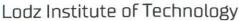
C category: number of rubs: 4 000 ÷ 10 000

Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

_____ The end of Test Report _____





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





AB 164

TEST REPORT NO. BL-ME 95.2 / 2024 / 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: * The upholstery product MAGIC VELVET, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-12
- **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 presented in document ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence layer and coverage factor k = 2.
- 7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements of specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance in specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2024-04-02 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 KIĘROWNIKA

mgr inż. Jerzy Andrysiak

Page 1 of 2

TEST REPORT NO. BL-ME 95.2 / 2024 / B / A

Parameter		Value	Test method
Overall value avarage tear force,	varage tear force,		PN-EN ISO 13937-3:2002 (single tear method) climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C,
	weft	110 ± 0	R.H. 65% ± 4%, tensile machine: Zwick 1120, rate of extension: 100 mm/min., distance between clamps: 100 mm, method of calculating average values: electronic; number of test specimens: 5 in each direction.

Evaluation: according to PN-EN 14465:2005 + A1:2007: A category: \geq 40 N, B category: \geq 30 N,

C category: ≥ 25 N, D category: ≥ 20 N, E category: ≥ 15 N

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ

I ELEKTROSTATYKI

Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report



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





AB 164

TEST REPORT NO. BL-ME 95.1 / 2024 / 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 product ZORA, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2024-02-14
- 4. Date of test performance: 2024-03-13
- 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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- 5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) /
- 6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented values of uncertainty. 6. Measurement uncertainty, if it is specified, has been determined according to the recomment of the recommendation o 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. adawcz

Test Report date: 2024-04-02 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 Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 95.1 / 2024 / B / A

Parameter		Value	Test method
The mean of	longitudinal direction	1600 ± 100	PN-EN ISO 13934-1:2013-07 climate for conditioning sample and testing according
maximum force, N	cross direction	800 ± 40	to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%,
The mean of elongation at	longitudinal direction	25,0 ± 2,0	tensile machine: Hounsfield H5KS, rate of extension: 100 mm/min., pretension: 5N,
maximum force, %	cross direction	22,5 ± 2,5	distance between clamps: 200 mm, number of test specimens: 5 in each direction.

Evaluation: according to PN-EN 14465:2005 + A1:2007:

A category: > 600 N, B category: ≥ 400 N, C category: ≥ 350 N, D category: ≥ 250 N

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
I ELEKGROSTATYKI
Z-CA KIĘROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report







AB 077

Łódź, 19th March 2024

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

L-78/2024

TEST CERTIFICATE No BL-AI 76/186/2024/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

sample - furniture upholstery fabric ZORA, raw material

composition: 100 % polyester

3. Date of receiving sample for testing: 14.02.2024

4. Date of the test conducting:

22.02 - 08.03.2024

5. Sampling:

sample in a proper size, in a proper condition for tests, supplied by

the customer

RESULTS OF THE TESTS

Tested feature	t	t of the est gree]	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007			
	[9 . ee]			Α	В	С	
Colour fastness to: - artificial light 1)	a/	6-7	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.

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 OBSZARIJ/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 -

a/ change in colour of the sample







AB 077

Łódź, 19th March 2024

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.

2. Subject of study X):

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

L-78/2024

TEST CERTIFICATE No BL-AI 76/186/2024/A

1. Name and address of the principal x): Toptextil Sp. z o.o.

ul. Mickiewicza 29, 34-100 Wadowice

sample - furniture upholstery fabric ZORA, raw material

composition: 100 % polyester

3. Date of receiving sample for testing: 14.02.2024

4. Date of the test conducting: 18.03.2024

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 accordin to PN-EN 14465:2005 A1:2007			
				Α	В	С	
Colour fastness to: - dry rubbing: 1) warp weft - wet rubbing: 1) warp weft	a/ 4-5 a/ 4-5 a/ 4-5 a/ 4-5	PN-EN ISO 105- X12:2016- 08	- time of acclimatisation: 4 h - temperature of the test: 20.1 °C - humidity of the test: 33.0 % - rubbing pick: Ø 16 ± 0.1 mm - push: 9 ± 0.2 N - degree of moisturising of the rubbing fabric: 100 %	≥ 4-5 ≥ 3-4	≥ 4 ≥ 3	≥ 3-4 ≥ 2-3	

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.

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. Agnieszna Lisiak-Kucińska

Number of copies of the test certificate: 3

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a/ staining - the cotton rubbing fabric