



Laboratory of Chemical Testing and Instrumental Analysis

The ŁUKASIEWICZ Research Network – Textile Research Institute 92-103 Lodz. 5/15 Brzezinska Str.

phone No +48 42 61-63-130 (128), fax +48 42 61-63-131 e-mail: jerzy.piestrzeniewicz@iw.lukasiewicz.gov.pl, agnieszka.lisiak-kucinska@iw.lukasiewicz.gov.pl





AB 077

Łódź, 15th November 2021

L-441/2021

TEST CERTIFICATE No BCH 416/875/2021/A/1

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 of furniture upholstery fabric BRAID, material composition

100 % polyester

3. Date of receiving sample for testing:

29.10.2021

4. Date of the test conducting:

29.10 - 10.11.2021

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	Test conditions	categori	es accord	ments for ing to PN- + A1:2007 C
Colour fastness to: - artificial light 1)	a/ 4	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

Page No 2 TEST CERTIFICATE No BCH 416/875/2021/A/1

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: 2.

Authorized by:

Laboratorium Badań Chemicznych
i Analiz Instrumentalnych
STARSZY SPECJALISTA ds. BADAWCZYCH
Z-CA KIEROWNIKA TECHNICZNEGO

mgr inż. Zdzisława Mrozińska

Confirmed by:

Laboratorium Badam Chemicznych i Analiz Instrumentalnych LIDER CBSZARU KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz

Number of copies of the test certificate: 3

The test certificate receive:

- Customer - 2 copies

- The ŁUKASIEWICZ Research Network - Textile Research Institute - BCH - 1 copy

- THE END -



Instytut Włókiennictwa

Laboratory of Chemical Testing and Instrumental Analysis

The ŁUKASIEWICZ Research Network - Textile Research Institute 92-103 Lodz, 5/15 Brzezinska Str.

phone No +48 42 61-63-130 (128), fax +48 42 61-63-131 e-mail: jerzy.piestrzeniewicz@iw.lukasiewicz.gov.pl, agnieszka.lisiak-kucinska@iw.lukasiewicz.gov.pl





AB 077

Łódź, 15th November 2021

L-441/2021

TEST CERTIFICATE No BCH 416/875/2021/A

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ul. Mickiewicza 29, 34-100 Wadowice

Subject of study X):

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100 % polyester

3. Date of receiving sample for testing:

29.10.2021

4. Date of the test conducting:

09.11.2021

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	Test conditions	categorie	s accord	ments for ling to PN- + A1:2007
Colour fastness to: - dry rubbing: 1) longitudinal direction cross direction - wet rubbing: 1) longitudinal direction cross direction	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: 19.7 °C - humidity of the test: 35.1 % - rubbing pick: Ø 16 ± 0.1 mm - push: 9 ± 0.2 N - degree of moisturising of the rubbing fabric: 100 %	≥ 4-5 ≥ 3-4		≥ 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

a/ staining - the cotton rubbing fabric

Page No 2 TEST CERTIFICATE No BCH 416/875/2021/A

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- 3. X) Data provided by the principal/customer.
- 4. Total number of pages of the test certificate: 2.

Authorized by:

Laboratorium Badaii. C'iemicznych i Analiz instrumentalnych STARSZY SPECJALISTA ds. BADAWCZYCH Z-CA KIEROWNIKA TECHNYCZNEGO WWW. mgr inż. Zdzisława Mrozińska

Confirmed by

Laboratorium Badań Chemicznych i Analiz Instrumentalnych LIDER OBSZARU KIEROWNIK

mgr inż. Jerzy Plestrzeniewicz

Number of copies of the test certificate: 3

The test certificate receive:

- Customer 2 copies
- The ŁUKASIEWICZ Research Network Textile Research Institute BCH 1 copy

- THE END -



Instytut Włókiennictwa

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: malgorzata.szejna@iw.lukasiewicz.gov.pl



AB 029

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 365 / BP / 21

Sieć Badawcza Lukasiewicz-

Instytut Włók iennictwa LABORATORIUM BADAŃ

PALNOŚC! WYROBÓW 90-520 Łódź, Gdańska 118

tel. 42 25 34 435, fax 42 25 34 490

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 BRAID, composition: 100% polyester
- polyurethane foam T-3037 SG, 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.

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:

Katarzyna Maciejewska MSc. Eng.

Sample received on: 02.11.2021
Test performed on: 22.11.2021
Test Certificate issued on: 23.11.2021

STARSZY SPECJALISTA ds. BADAWCZYCH KIEROWNIK TECHNICZNY

Laboraturium Badań Palności Wyrobów

dr inż. Krzysztof Kostane

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. *Data provided by the Customer.
- 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 19 °C; humidity 41 %

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 BRAID, composition: 100% polyester

- T-3037 polyurethane foam, self-extinguish.

Criteria		Cigarette			Remarks	
		1	2	3	Kelliaiks	
Unsafe escalating combustion Test assembly consumed		NO	NO	NO		
		NO	NO	NO	Cigarette 1 fail to smoulder its	
Constal and a	Smoulders to extremities Smoulders through thickness		NO	NO	complete length. It was extinguished after 3 min. 51 s. Cigarette 2 fail to smoulder its	
Smouldering criteria			NO	NO		
Citteria	Smoulders more than 1 hour	NO	NO	NO	complete length. It was extinguished after 5 min. 15 s. Cigarette 3 fail to smoulder its	
	In final examination, presence of active smouldering	NO	NO	NO		
Flaming criteria Occurrence of flames		NO	NO	NO	complete length. It was extinguished after 7 min. 45 s.	

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

END OF THE TEST CERTIFICATE





Instytut Włókiennictwa Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties

The Łukasiewicz Research Network – Textile Research Institute, 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: beata.witkowska@iw.lukasiewicz.gov.pl, jerzy.andrysiak@iw.lukasiewicz.gov.pl

TEST REPORT NO. BM 589.2 / 2021 / 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 BRAID, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-10-29
- 4. Date of test performance: 2021-11-22
- **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: Małgorzata Frołow

- 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) / 92-103-1-625.

 __ul. Brzezińska 5/15(B).
- 4. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in a per ment EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factors.
- 5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test results requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the beginning limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2021-11-24 Number of Test Report 's copies: 2

Test Report handed to:

- 1) "TOPTEXTIL" Sp. z o.o., Wadowice 1 copy,
- 2) Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties (location: 5/15 Brzezińska str.) 1 copy.

Test Report prepared by:

Patrycja Bąk

Person authorizing the Test Report

Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

Form 7.8.2 issue 5 X-information delivered by Client Page 1 of 2

TEST REPORT NO. BM 589.2 / 2021 / B

Parameter	Value	Remarks	
Seam slippage resistance, mm:		PN-EN ISO 13936-2:2005	
Longitudinal direction		sample conditioned according to PN-EN	
The mean value of resistance to perforation	5 ± 0	ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%.	
in the seam for longitudinal direction, mm		tensile tester: Hounsfield H50 KM,	
- individual results, mm	5; 6; 6; 5; 5	testing force: 180 N,	
		100% PES sewing threads (74 ± 5) tex,	
Cross direction		the number of sewing needle: 110, the number of stitch: 32±2/100 mm,	
The mean value of resistance to perforation	6 ± 0	rate of extension: 50 mm/min.	
in the seam for cross direction, mm	0 = 0	number of test specimens: 5	
- individual results, mm	6; 6; 6; 5; 5	Name of the state	

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

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

LaiPerson authorizing the Test Report Włókienniczych i Własności Elektrostatycznych GŁÓWNY SPECJĄLISTĄ Z-CA KIEROWNIKA

mgr inż. Jerzy/Andrysiak

-----The end of Test Report-----



Instytut Włókiennictwa **Laboratory of Testing Raw Materials, Textiles** and Electrostatic Properties

Łukasiewicz Research Network - Textile Research Institute, 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: beata.witkowska@iw.lukasiewicz.gov.pl, jerzy.andrysiak@iw.lukasiewicz.gov.pl





AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 589.3 / 2021 / 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 BRAID, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-10-29
- 4. Date of test performance: 2021-11-09
- 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: Małgorzata Frołow

- 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. CCWA CCHCH CCNCH
- 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 decument 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 \$\frac{1}{2}\$ specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit execution specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-11-24 Number of Test Report 's copies: 2

Test Report handed to:

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

2) Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:

Patrycja Bak

Person authorizing the Test Report:

Laboratorium Badań Sąrowców, Wyrobów Włókienniczych i Własno ci Elektrostatycznych GŁÓWNY SP CJALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 589.3 / 2021 / B / A

Parameter		Value	Remarks	
Propensity to surface fuzzing	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method) sample conditioned according to PN-EN ISO	
and pilling, grade	1 000	5	139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, number of test specimens: 3,	
	2 000	4 – 5 Slight surface fuzzing	number of evaluators: 3, the abradant: the standard woolen fabric; mass of weight: (415 ± 2) g.	
	5 000	4 – 5		

Evaluation according to PN-EN 14465:2005+A1:2007: **A category: grade** $\geq 4-5$; B category: grade 4; C category: grade 3 - 4; D category: grade 3

Wókienniczych i Właspości Elektrostatycznych
GŁÓWNY / PECJALISTA
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

_____ The end of Test Report _____



Instytut Włókiennictwa Laboratory of Testing Raw Materials, Textiles and Electrostatic Properties

Łukasiewicz Research Network – Textile Research Institute, 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: beata.witkowska@iw.lukasiewicz.gov.pl ,

jerzy.andrysiak@iw.lukasiewicz.gov.pl





AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 589.1 / 2021 / 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 BRAID, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-10-29
- 4. Date of test performance: $2021-11-04 \div 23$
- 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

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- 92-103 Łódź, ul. Brzezińska 5/15 (B).
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- 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.

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Test Report prepared by:

Patrycja Bak

Person authorizing the Test Report:

Laboratorium Badań Surowców, Wyrobów Włókienniczych i Własności Elektrostatycznych GŁÓWNY \$PEQIALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 589.1 / 2021 / B / A

Parameter		Value	Remarks	
	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	
Abrasion resistance,	1 specimen	140 000	sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C,	
number of rubs	2 specimen	140 000	RH: 65% ± 4%, the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kl	
	3 specimen	140 000	magnification factor in the magnifying device: 8.	
	4 specimen	140 000	Criterion of destruction of the testing specimens in accordance with that standard:	
	Total abrasion resistance (the lowest individual result)	100 000	flat woven fabric – three threads completely broken. Note: Pilling occurred at 35 000 rubs.	

Evaluation: according to PN-EN 14465:2005 + A1:2007: A category: number of rubs \geq 35 000 rubs, B category: number of rubs: 12 000 \div 30 000, C category: number of rubs: 4 000 \div 10 000

Person authorizing the Test Report

Laboratorium Badań Symbweów, Wyrobów Włókienniczych i Własności/Eiektrostatycznych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak
The end of Test Report