

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 250.3 / 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 woven fabric BALOO, declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
- 3. Date of receiving material for testing: 2021-04-27
- 4. Date of test performance: 2021-05-13
- 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.
- 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 the 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 gives specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-04-14 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 Surowców, Wyrobów Włókienniczych i WłasnoścyElektrostatycznych GŁÓWNY SPECIALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 250.3 / 2021 / B / A

Parameter	Value Re			
Seam slippage resistance, mm:		PN-EN ISO 13936-2:2005		
Warp		sample conditioned according to PN-EN		
The mean value of seam slippage resistance	2 ± 0	ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C RH: 65% ± 4%.		
for warp direction, mm		tensile tester: Hounsfield H50 KM.		
- individual results, mm	3; 2; 2; 2; 2	testing force: 180 N,		
Cast rest of the desired of the desired set of the desired of the		100% PES sewing threads (74 ± 5) tex,		
Weft		the number of sewing needle: 110		
The mean value of seam slippage resistance	2 1 0	the number of stitch: 32±2/100 mm rate of extension: 50 mm/min.		
for weft direction, mm	3 ± 0	number of test specimens: 5		
	2 4 4 2 2	number of test specimens. 5		
- individual results, mm	3; 4; 4; 3; 3			

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

The end of Test Report mgr inż. Jerzy Andrysiak



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

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AB 164

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TEST REPORT NO. BM 250.1 / 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 woven fabric BALOO, declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
- 3. Date of receiving material for testing: 2021-04-27
- 4. Date of test performance: $2021-04-28 \div 05-11$
- 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: Małgorzata Frołow

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Test Report date: 2021-05-14 Number of Test Report 's copies: 2

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Test Report prepared by:

Patrycia Bak

Person authorizing the Test Report:

Laboratorium Badari Surowców, Wyrobów Włókienniczych i Włagności Elektrostatycznych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA

Jerzy Andrysiak

TEST REPORT NO. BM 250.1 / 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					
Abrasion resistance, number of rubs	1 specimen	≥100 000 without reaching the end-point	sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%,					
	2 specimen	≥100 000 without reaching the end-point	the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa, magnification factor in the magnifying device: 8.					
	3 specimen	≥100 000 without reaching the end-point	Criterion of destruction of the testing specimens in accordance with that standard: flat woven fabric – three threads completely					
	4 specimen	≥100 000 without reaching the end-point	broken.					
	Total abrasion resistance (the lowest individual result)	≥100 000 without reaching the end-point						

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

mgr inż. Jerz Andrysiak

The end of Test Report	
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jerzy.andrysiak@iw.lukasiewicz.gov.pl





AB 164

Testing Laboratory accredited by the Polish Centre for Accreditation

TEST REPORT NO. BM 250.2 / 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 woven fabric BALOO, declared raw material composition: 93% Polyester, 6% Acrylic, 1% Cotton.
- 3. Date of receiving material for testing: 2021-04-27
- 4. Date of test performance: 2021-05-12
- **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: Malgorzata Frolow

- 1. Test results refer only to the tested material.
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- 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 limit specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-05-14 Number of Test Report 's copies: 2

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Test Report prepared by:

Patrycja Bak

Person authorizing the Test Report:

Laboratorium Badań surowców, wynobelni Włokienniczych i Własności Elektrostorycznych GŁÓWNY SPECIALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 250.2 / 2021 / B / A

Para	ameter	Value	Remarks
Propensity to surface fuzzing and pilling, grade	the number of rubs 500	5 (modified I sample cond	PN-EN ISO 12945-2:2002 (modified Martindale method) sample conditioned according to PN-EN ISO
	1 000	4 – 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

Person authorizing the Test Report

Laboratorium Badań Surowedw, Wyrobów Włókienniczych i Własności Elektrostatycznych GŁÓWNY SPECJAVISTA Z-CA KIEROWNIKA

The end of Test Report mgr inz. Jerzy Andrysick



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





Łódź, 24th of May 2021

L-176/2021

TEST CERTIFICATE No BCH 160/385/2021/A

1. Name and address of the principal X): ,,TOPTEXTIL" Sp. z o.o.

34 - 100 Wadowice, ul. Mickiewicza 29

2. Subject of study X):

Sample of furniture upholstery fabric BALOO - raw material composition:

93% polyester/6% acrylic/1% cotton

3. Date of receiving sample for testing:

26.04.2021

4. Date of the test conducting:

04.05 - 24.05.2021

5. Sampling:

sample in a proper size, in a proper condition for research, supplied by the

customer

RESULTS OF THE TESTS

Tested feature		ult of the [degree] 1)	Reference document	Test conditions	categori	f requirem es accordii 65:2005 + B	ng to PN-
Colour fastness to: - artificial light	a/	6	PN-EN ISO 105- B02:2014-11 Method No 2	Device: Xenotest Alpha LM Light conditions: A1 Radiation measurement in the range (300-400) nm Sample rotation was not used	≥ 6	≥ 5	≥ 4

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

Authorized by:

Marta Łatwińska, PhD

Holy

Confirmed by:

Laboratorium Badań Chemicznych i Analiz Instrumentalnych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA/KIEROWNIK TECHNICZNY

rogr inż. Agnieszka L siak-Kucińska

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, 24th of May 2021

L-176/2021

TEST CERTIFICATE No BCH 160/385/2021/A/1

1. Name and address of the principal X): ,,TOPTEXTIL" Sp. z o.o.

34 - 100 Wadowice, ul. Mickiewicza 29

2. Subject of study X):

Sample of furniture upholstery fabric BALOO – raw material composition:

93% polyester/6% acrylic/1% cotton

3. Date of receiving sample for testing:

26.04.2021

4. Date of the test conducting:

04.05 - 24.05.2021

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 t	AND CONTRACTOR OF THE PROPERTY OF	Reference document	Test conditions	Level of a categories a 14465:2		to PN-EN
	18				A	В	C
Colour fastness to rubbing: - Dry longitudinal direction cross direction - Wet longitudinal direction cross direction	a/ :	5 5 -5 -5	PN-EN ISO 105- X12:2016-08	Acclimatization time: 4h Temperature of the test: 19,3°C; Humidity of the test: 43,7%; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N degree of moisturising of the rubbing cotton fabric: 100%	≥ 4-5 ≥ 3-4	3	3-4 2-3

Declour fastness according to "Grey scale", indicator "5" means – no change in colour of the cotton rubbing fabric, indicator "1" means – big change in colour at 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.

Authorized by:

Marta Łatwińska, PhD

Mac

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

Confirmed by:

Laboratorium Badań Chemicznych i Analiz Instrumentalnych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA/KIĘROWNIK TECHNICZNY

mgr inż. Agnieszka Lisiak-Kucińska

- 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.lukaszewicz.gov.pl



AB 029

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 162 / BP / 21

Sieć Badawcza Łukasiewicz-

Instytut vviókiennictwa

LABORATORIUM BADAN PALMOSCI WYROBÓW

90-520 Lodž, Gdanska 118

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:

- tet. 42 25 34 435, fax 42 25 34 400 - upholstery fabric named BALOO, composition: 93% Polyester, 6% Acrylic, 1% Cotton
- 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:

Ko. tares

Krzysztof Kostanek Ph.D.

Sample received on:

28.04.2021

Test performed on:

28.05.2021

Test Certificate issued on:

28.05.2021

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 Laboratory.
- The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing. *Data provided by the Customer.
- *Data provided by the Customer.

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

Test Certificate authorized by

GLOWNY SPECIALISTA

KIEROWNIK

DETAILED TESTING RESULTS

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

Testing conditions: temperature 25 °C; humidity 36 %

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 BALOO, composition: 93% Polyester, 6% Acrylic, 1% Cotton
- T-3037polyurethane foam, self-extinguish.

Criteria		Cigarette				D				
	Criteria	1	2	3		Remarks				
Unsafe escalating combustion Test assembly consumed		NO	NO	-	Maximum cigarette					
		NO	NO	127	smouldering time:					
Cmauldarina	Smoulders to extremities	NO	NO	-						
Smouldering criteria	Smoulders through thickness	NO	NO	-	15 minutes 26 seconds					
Cincila	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO - Maximum uphol composite destru							
Flaming	2007				horizontal [mm] vertical [mm					m]
criteria	Occurrence of flames	NO	NO	-	length	width	depth	length	width	depth
criteria					63	12	3	59	11	2

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



END OF THE TEST CERTIFICATE