





AB 077

Łódź, 26th of January 2021

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 61-631-30 (128), fax +48 42 61-63-131 e-mail: jpiestrzeniewicz@iw.lodz.pl, alisiak@iw.lodz.pl

L-4/2021

TEST CERTIFICATE No BCH 3/10/2021/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 MIU – raw material

composition: 100% Polyester

3. Date of receiving sample for testing: 05.01.2021

4. Date of the test conducting: 05.01 – 26.01.2021

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] 1)		Reference document	Test conditions	Level of requirements for categories according to PN- EN 14465:2005 + A1:2007 A B C		
Colourfastness to: - artificial light	a/	6	PN-EN ISO 105- B02:2014-11 Metoda 2	Device: Xenotest Alpha LM Light conditions: A1 Radiation measurement in the range (300-400) rim Sample rotation was not used	≥ 6	≥ 5	≥ 4

Delour fastness according to "Blue scale", indicator "8" means – no change in colour of the sample, indicator "1" means – big change in colour a/ change of 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.

X) data provided by the principal/customer

4. Total number of pages of the test certificate: 1.

Test authorized by:

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

mgr inż. Zdzisława/Mrozińska

Laboratorium Badan Chemicznych Confirmedia Ynstrumentalnych LIDER OBSZARU KIEROWNIK

mgr inz. 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 -







AB 077

Łódź, 26th of January 2021

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 61-631-30 (128), fax +48 42 61-63-131 e-mail: jpiestrzeniewicz@iw.lodz.pl, alisiak@iw.lodz.pl

L-4/2021

TEST CERTIFICATE No BCH 3/10/2021/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 MIU – raw material

composition: 100% Polyester

3. Date of receiving sample for testing: 05.

05.01.2021

4. Date of the test conducting:

05.01 - 26.01.2021

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	Reference document	Tost conditions categories a		requirements for according to PN-EN 2005 + A1:2007	
	[degree]	uocument		A	В	C
Colour fastness to rubbing: - Dry longitudinal direction cross direction - Wet	a/ 5 a/ 5	PN-EN ISO 105- X12:2016-08	Acclimatization time: 4h Temperature of the test: 17,3°C; Humidity of the test: 37,7%; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N	≥ 4-5	4	3-4
longitudinal direction cross direction	a/ 4-5 a/ 4-5			≥ 3-4	3	2-3

Dolour fastness according to "Grey scale", indicator "5" means – no change in colour, indicator "1" means – big change in colour a/ staining of 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.

Test authorized by:

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

MCCCCC mgr inż. Zdzisławą Mrozińska

Confirmed by: Laboratorium Badan Chemicznych i Analiz Instrumentalnych LIDER QB5ZARU 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 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

No W BP / 21

Sieć Badawcza Łukasiewicz-

Instytut Włókiennictwa

LABORATORIUM BADAN

PALNOŚCI WYROBÓW 90 520 Lódź, 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 MIU, composition: 100% Polyester,

- T-3037polyurethane 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.

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:

Krzysztof Kostanek Ph.D.

Sample received on:

07.01.2021

Test performed on:

29.01.2021

Test Certificate issued on:

29.01.2021

Test Certificate authorized by

Land State S

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.
- 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 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 MIU, composition: 100% Polyester,

- T-3037polyurethane foam, self-extinguish.

Criteria		Cigarette			D				
		1 2		Remarks					
Unsafe escalating combustion			2	Maximum cigarette					
Test assembly consumed	NO	NO	-	smouldering time:					
Smoulders to extremities	NO	NO	-	13 minutes 11 seconds					
Smoulders through thickness	NO	NO	-						
Smoulders more than 1 hour	NO	NO							
In final examination, presence of active smouldering	NO	NO	<u>V-</u>						
				hori	zontal [mm]	vei	rtical [n	ım]
Occurrence of flames	NO	NO	-	length	width	depth	length	width	depti
	Unsafe escalating combustion Test assembly consumed Smoulders to extremities Smoulders through thickness Smoulders more than 1 hour In final examination, presence of active	Unsafe escalating combustion NO Test assembly consumed NO Smoulders to extremities NO Smoulders through thickness NO Smoulders more than 1 hour NO In final examination, presence of active smouldering	Unsafe escalating combustion NO NO 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	Unsafe escalating combustion NO NO - 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 -	Unsafe escalating combustion Test assembly consumed Smoulders to extremities Smoulders through thickness Smoulders more than 1 hour In final examination, presence of active smouldering	1 2 3	Unsafe escalating combustion NO NO - 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 Occurrence of flames NO NO - NO NO - NO NO - Maximum composite Maximum composite	Unsafe escalating combustion NO NO - 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 Occurrence of flames NO NO - NO NO - Maximum cigare smouldering tin smoul	Unsafe escalating combustion Test assembly consumed NO NO NO Smoulders to extremities NO NO NO Smoulders through thickness NO NO NO NO Maximum cigarette smouldering time: 1

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

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 79.1 / 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 MIU, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-02-10
- 4. Date of test performance: 2021-02-18
- 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 paramet
- 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 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 statemen's rules given by Client could be allowed.

Test Report date: 2021-02-23 Number of Test Report 's copies: 2

Test Report handed to:

- 1) "TOPTEXTIL" Sp. z o.o., Wadowice 1 copy,
- 2) Laboratory for 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 Surawców, Kryrabow Włókienniczych i Własności Elektrostatycznych GŁÓWNY SPECJALISTA Z-CA KJEROWNIKA

mgr inż. Jerzy Andrysiak

Page 1 of 2

TEST REPORT NO. BM 79.1 / 2021 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp The mean value of seam slippage resistance	4 ± 0	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%.
for warp direction, mm - individual results, mm	4; 3; 4; 4; 4	tensile tester: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads (74 ± 5) tex,
Weft The mean value of seam slippage resistance	4 ± 0	the number of sewing needle: 110 the number of stitch: $32\pm2/100$ mm rate of extension: 50 mm/min. number of test specimens: 5
for weft direction, mm - individual results, mm	3; 4; 4; 4; 4	number of test specimens. 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 Surawców, Wyrobów Włókienniczych i Własności Elektrostatycznych GŁÓWNY SPECJALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

____ The end of Test Report ____



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

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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 79.2 / 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 MIU, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-02-10
- 4. Date of test performance: 2021-02-16
- 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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- 92-103 Łódź, ul. Brzezińska 5/15 (B).
- 6. Measurement uncertainty, If II is specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given by Client could be allowed.

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Number of Test Report 's copies: 2

Test Report handed to:

- 1) "TOPTEXTIL" Sp. z o.o., Wadowice 1 copy,
- 2) Laboratory for 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 Włokienniczych i Własności Ejektrostatycznych GLOWNY SPECIALISTA Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BM 79.2 / 2021 / B / A

Parameter		Value	Remarks		
Propensity to surface fuzzing	the number of rubs 500	4 – 5	PN-EN ISO 12945-2:2002 (modified Martindale method) sample conditioned according to PN-EN ISO		
and pilling, grade	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 ≥ 4-5; B category: grade 4; C category: grade 3 - 4; D category: grade 3

Person authorizing the Test Report

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

mgr inż. Jerzy Andrysiak

The end of Test Report



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

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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 79.3 / 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 MIU, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2021-02-10
- 4. Date of test performance: $2021-02-11 \div 19$
- 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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- 6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in 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 lima specification. The conformity statemen's rules given by Client could be allowed.

Test Report date: 2021-02-23 Number of Test Report 's copies: 2

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- 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 Własności Elektrostatycznych GŁÓWNY SPECIALISTA Z-CA KIEROWNIKA

mgr inz. Jerzy Andrysiak

TEST REPORT NO. BM 79.3 / 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, number of rubs	1 specimen	90 000	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,			
	2 specimen	90 000				
	3 specimen	90 000	magnification factor in the magnifying device: 8. Criterion of destruction of the testing specimens in accordance with that standard:			
	4 specimen	90 000				
	Total abrasion resistance (the lowest individual result)	90 000	chenille fabric – three threads are completely broken or when the chenille pile is fully worn off (whatever comes first). Three threads are completely broken in this shenille fabric.			

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 płektrostatycznych
GŁÓWNY SPEGIALISTA
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

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The end of Test Report	
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