





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: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

TEST CERTIFICATE NO. BM 12.7.1.3 / 2018 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product JAGUAR, declared raw material composition: 100% Polyester
- 3. Date of receiving material for testing: 2018-05-21
- 4. Date of test performance: 2018-06-04÷06
- 5. Samples taken by: 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: Elżbieta Olczak

- 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; it can be copied only as a whole document.
- 3. Test Certificate 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. 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.

Certificate date: 2018-06-25 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy.,
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bąk

Person authorizing the Test Certificate:

Name and surname:

Function: Signature

Zastępca Kierownika Laboratorium Badan Surowców i Wyrobów Wokienniczych Instytut Wokiennictwa

mgr inż. Jerzy Andrysiak

INSTYTUT WŁÓKIENNICTWA
Laboratorium Badań Surewoświer I Wyrobów Wiókienniczych
92-103 Łódź, III Brzeniczych

TEST CERTIFICATE NO. BM 12.7.1.3 / 2018 / B / A

P	arameter	Value	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 the conditioned sample,				
Abrasion resistance, number of rubs	1 specimen	45 000	the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa,				
	2 specimen	40 000	magnification factor in the magnifying device: 8.				
	3 specimen	45 000	Specimens in accordance with that standard:				
	4 specimen	40 000	cut pile knitted fabric – pile spots of 5 mm ² are fully worn off without any damage to the rows and columns in knitted fabric.				
	Total abrasion resistance (the lowest individual result)	40 000	and columns in kinucu labric.				

Evaluation: according to PN-EN 14465:2005 + A1:2007: A category: number of rubs \geq 45 000 rubs, **B category: number of rubs:** 25 000 \div 40 000, C category: number of rubs: 10 000 \div 20 000

The end of Test Certificate
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Person authorizing the Test Certificate

Zastępca Kierownika Laboratorium Sprah Surowców i Wyrobów Wykienniczych Instylut Wykiennictwa

mgr inż. Jerzy Andrysiak



Laboratory of Testing Textile Raw Materials and Fabrics

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: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl

TEST CERTIFICATE NO. BM 12.7.1.2 / 2018 / B

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street, 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product JAGUAR, declared raw material composition: 100% Polyester.
- 3. Date of receiving material for testing: 2018-05-21
- 4. Date of test performance: 2018-06-20
- 5. Samples taken by: 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: Elżbieta Olczak

- 1. Test results refer only to the tested material.
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Certificate date: 2018-06-25 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy,
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bak

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature:

Zastępca Kierowniko Badań Surowenn Wokienniczych Laboratorium i Wyrobóy Instytut

rzy Andrysiak mgr inż.

TEST CERTIFICATE NO. BM 12.7.1.2 / 2018 / B

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp The mean value of seam slippage resistance for warp direction, mm individual results, mm Weft The mean value of seam slippage resistance for weft direction, mm individual results, mm	3 2,5; 2,5; 3; 3; 3 3 3; 3; 2,5; 2,5; 3	PN-EN ISO 13936-2:2005 the conditioned sample 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
<u>Evaluation:</u> according to PN-EN 14465:2005 + A requirements level: A category: ≤ 4 mm; B ca		egory: ≤8 mm

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Person authorizing the Test Certificate

Zastępca Kierbwnika Laboratorium Fadah Surowców i Wyrobów Wbienniczych Instytut Wirkiennictwa

mgr inż. Jerzy Andrysiak

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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

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LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

TEST CERTIFICATE NO. BM 12.7.1.1 / 2018 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product JAGUAR, declared raw material composition: 100% Polyester
- 3. Date of receiving material for testing: 2018-05-21
- 4. Date of test performance: 2018-06-19
- 5. Samples taken by: 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: Elżbieta Olczak

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Certificate date: 2018-06-25 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy.,
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bąk

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Zastępca Kierownika Laboratori im Badań Surowcół i Wyrobów Wykienniczych Instytut Wykiennictwa

ngr inz. Jazy Andrysiak

TEST CERTIFICATE NO. BM 12.7.1.1 / 2018 / B / A

Parameter		Value	Remarks
Propensity to surface fuzzing and pilling,	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method) the conditioned sample,
grade	1 000	5	the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;
	2 000	5 No change	
	5 000	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

The end of Test Certificate	
The end of Test Certificate	

Person authorizing the Test Certificate

Zastępca Kierownika Laboratorium Barviń Surowców i Wyrobów Włokkenniczych Instytut Włokiennictwa rngr inż. Jerz/ Andrysiak

DV 26 1/0/ immed on 10 d. Mr. -1 2010







Łódź 25th of June 2018

Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str. phone no. +48 42 6163130 (120, 128), fax +48 42 6163131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

L - 234/2018

TEST CERTIFICATE No BCH 211/506/2018/A

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

ul. Wadowicka 12, 30-415 Kraków

2. Subject of study: Sample No 1 – furniture upholstery product JAGUAR, declared material composition 100% polyester

- 3. Date of receiving sample for testing: 23.05.2018
- 4. Date of the tests conducting: 04.06. 22.06.2018
- 5. Sampling: sample in a proper size, in a proper condition for research, supplied by the client

RESULTS OF THE TESTS

Tested feature	Results of the test 1) [degree]	Reference dokument	Technical specifications			ding to
	1 8 7			A	В	C
Colour fastness to rubbing: - Dry longitudinal direction cross direction - Wet longitudinal direction cross direction	a/ 3 a/ 3 a/ 4 a/ 4	PN-EN ISO 105- X12:2016-08	Acclimatization conditions: temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h; Test conditions: ambient temperature; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N; degree of moisturising of the rubbing cotton fabric: 100%	≥ 4-5 ≥ 4	2	≥ 4

¹⁾ Colour fastness according to "Grey scale", indicator "5" means - no change in colour, indicator "1" means - big change in colour a) staining rubbing to cotton

Remarks:

- 1. In accordance with ISO ILAC-IAF (January 2009) Communicate available on www.pca.gov.pl, laboratory accreditation referring to ISO/IEC 17025:2005 means fulfilling the demands concerning technical laboratory competence and managing system, which are required to ensure technical reliable results of the tests.
- 2. Test results refer only to the tested material.
- 3. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
- 4. Total number of pages of the test certificate 1.

Test authorized by:

LABORATORIUM BADAŃ CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK TECHNICZNY ds. Bed in Institute entalnych

Number of copies: 3

- IW - Laboratory of Chemical Testing and Instrumental Analysis - 1 copy

The test certificate receive: - Customer - 1 copy

mgr inż. Jerzy Pies mgr inż. Agniesz ka lisiak-Kucińska

EMICZNYCH KIEROW zeniewicz

Confirmed by:







Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str. phone no. +48 42 6163130 (120, 128), fax +48 42 6163131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

Łódź 25th of June 2018

L - 234/2018

TEST CERTIFICATE No BCH 211/506/2018/A/1

- 1. Name and address of the principal: "TOPTEXTIL" Sp. z o.o.
 - ul. Wadowicka 12, 30-415 Kraków
- **Subject of study:** Sample No 1 furniture upholstery product JAGUAR, declared material composition 100% polyester
- 3. Date of receiving sample for testing: 23.05.2018
- 4. Date of the tests conducting: 04.06. 22.06.2018
- 5. Sampling: sample in a proper size, in a proper condition for research, supplied by the client

RESULTS OF THE TESTS

Tested feature Results of the test 1) [degree] Reference dokument s		Technical specifications	categories	of requirem s according 5:2005 + Al	to PN-EN	
	[degree]			A	В	C
Colour fastness to: - artificial light	a/ 4	PN-EN ISO 105- B02:2014-11 Method 2	Device: Xenotest Alpha LM Light conditions: - wavelenght: 380-750 nm - filters: 7 IR - BST temperature = 47 ± 3 °C - chamber temperature:45 ± 3 °C - RH = 40% Estimation: Multilight chamber, light D65	≥ 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 of colour

- 1. In accordance with ISO ILAC-IAF (January 2009) Communicate available on www.pca.gov.pl, laboratory accreditation referring to ISO/IEC 17025:2005 means fulfilling the demands concerning technical laboratory competence and managing system, which are required to ensure technical reliable results of the tests.
- 2. Test results refer only to the tested material.
- 3. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
- 4. Total number of pages of the test certificate 1.

Test authorized by:

LABORATORIUM BADAN CHEMICZNYCH
I ANALIZ INSTRUMENTALNYCH
KIEROWNIK TECHNICZNY
ds. Est of lightnementalnych

mgr inz. Agnies Kullisiak-Kucińska

Number of copies: 3 The test certificate receive:

- Customer 1 copy
- IW Laboratory of Chemical Testing and Instrumental Analysis 1 copy
- IW Laboratory of Testing Textile Raw Materials and Fabrics 1 conv

Confirmed by:

LABORATORIUM BADAN CILEMICZNY I ANALIZ INSTRUMENTALNYCH EMICZNYCH KIEROW

mgr inż. Jerzy Piestrzeniewicz



Laboratory of Flammability Testing

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 240 / BP / 18

INSTYTUT WŁÓŁIENNICT LABORATORIU? BADAŃ PALNOŚCI WYROL

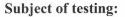
ul. Gdańska 118, 90-520 /

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. Wadowicka 12 30-415 Kraków



Upholstery composite:

- upholstery fabric named JAGUAR, composition: 100% Polyester

- T-3037 polyurethane foam, self-extinguished

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:

technician Andrzej Kubacki

Sample received on: 24.05.2018 Test performed on: 18.06.2018 Test Certificate authorized by

Laboratorium Badan Palności Wyrobów KIEROWNIK TEKNICZNY

mgr inż. Agnieszka Hulewicz

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.

DETAILED TESTING RESULTS

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

Testing conditions: temperature 24 °C; humidity 53 %

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 JAGUAR, composition: 100% Polyester

- T-3037 polyurethane foam, self-extinguished

-	Cuitania	(Cigarett	e	Damarka					
	Criteria	1	2	3	1		Ken	iarks		
	Unsafe escalating combustion	NO	NO	-	Maximum cigarette					
	Test assembly consumed	NO	NO	-	smouldering time:			Maximum upholstery composite destruction: horizontal [mm] vertical [mm length width depth length width		
Can and damin a	Smoulders to extremities	NO	NO	-	smouldering time: 16 minutes 44 seconds					
Smouldering criteria	Smoulders through thickness	NO	NO	-						
Cilicila	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-						
Flaming criteria	Occurrence of flames	NO	NO			length width depth length		_	m] depth	

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

END OF THE TEST CERTIFICATE



Laboratory of Flammability Testing

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 240 / BP / 18

LABURATORIUM LABURATORIUM BADAN PALNOŚCI WYROBĆ W

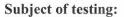
ul. Gdańsł a 118, 90-520 Łódz

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. Wadowicka 12 30-415 Kraków



Upholstery composite:

- upholstery fabric named JAGUAR, composition: 100% Polyester

- T-3037 polyurethane foam, self-extinguished

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:

technician Andrzej Kubacki

Sample received on: Test performed on:

24.05.2018 18.06.2018 Test Certificate authorized by

Laboratorium Baday Palności Wyrobów KIEROWNIK AND CHNICZNY

mgr inż. Agnieszka Hulewicz 18. 06. 2018

NOTES:

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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.

DETAILED TESTING RESULTS

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

Testing conditions: temperature 24 °C; humidity 53 %

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 JAGUAR, composition: 100% Polyester

- T-3037 polyurethane foam, self-extinguished

	Critaria	(Cigarett	e	Remarks					
	Criteria	1	2	3	1		Ren	larks		
Unsafe escalating combustion		NO	NO	-	Maximum cigarette					
	Test assembly consumed	NO	NO	-						
Consuldanina	Smoulders to extremities	NO	NO	-]		Maximum cigarette smouldering time: 16 minutes 44 seconds Maximum upholstery composite destruction:			
Smouldering criteria	Smoulders through thickness	NO	NO	-	16 minutes 44 seconds					
Ciliciia	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-						
Flaming	Occurrence of flames	NO	NO	_	horiz length	zontal [n	nm] verti		tical [m	m] depth
criteria					67	14	12	64	14	9

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

END OF THE TEST CERTIFICATE