





AB 077

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 14th of July 2017

L - 263/2017

ŚWIADECTWO Z BADAŃ nr BCH 252/561/2017/A

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

ul. Wadowicka 12, 30 – 415 Kraków

- 2. Name and description of tested sample: sample No 2 furniture fabric PERSIAN
- 3. Date of receiving sample for testing: 09.07.2017
- 4. Date of performance of testing: 12.07. 13.07.2017
- 5. Sampling: sample in a proper size, in a proper condition for research, supplied by the client

RESULTS OF THE TESTS

Property of investigation	Results	Testing method	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
				A	В	C
Colour fastness to rubbing: - Dry '' weft warp - Wet weft warp	a/ 4-5 a/ 4-5 a/ 4-5 a/ 4-5	PN-EN ISO 105- X12:2005	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 rubbing to fabric: 100%	≥ 4-5 ≥ 3-4	4	3-4 2-3

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:

Zdzisława Mrozińska, M.Sc. Eng.

Zreul

Confirmed by:

LABORATORIUM BADAŃ CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK TECHNICZ IY ds. Badań Chemicznych i Odporności Wybarwień

mgr inż. Katarzyna Chylewska

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 copy



Laboratory of Flammability Testing

90-520 Lodz, 118 Gdanska Str. phone 48 42 2534435 (436), fax 48 42 2534490

e-mail: mszejna@iw.lodz.pl



TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 149 / BP / 17

INSTYTUT WŁÓKIENNICTWA LABORATORIUM

BADAN PALNOŚCI WYROBÓW

ul. Gdańska 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

Subject of testing:

Upholstery composite:

- upholstery fabric named PERSIAN composition : 100% Polyester

- T-3037 SG polyurethane 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:

Andrzej Kubacki, technician

Sample received on:

07.06.2017

Test performed on:

03.07.2017

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr Inż. Malgorzata Szejna

05.07.W17

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 22 °C; humidity 60 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the norm PN-EN 1021-1:2014-12.

Upholstery composite characteristic:

Upholstery composite:

- upholstery fabric named PERSIAN composition: 100% Polyester

- T-3037 SG polyurethane foam, self-extinguish

Criteria		Cigarette			D l				
		1	2	3	Remarks				
Unsafe escalating combustion Test assembly consumed Smoulders to extremities		NO	NO	-	Maximum cigarette				
		NO	NO	-	smouldering time: 16 minutes 04 seconds				
		NO	NO	-					
Smouldering criteria Smoulders through thickness	NO	NO	_						
Smoulders more than 1 hour In final examination, presence of active smouldering		NO	NO	-	Maximum upholstery composite destruction:				
		NO	NO	-					
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mr	m] depth 10	ver	tical [m width	m] depth

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

END OF THE TEST CERTIFICATE







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





AB 164

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

TEST CERTIFICATE NO. BM 4.2.2.1 / 2017 / 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 fabric PERSIAN, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-07-10
- 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: 2017-07-13 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 MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Zastępca Kierownika Laboratorium jadań Surowców i Wyrobów Włókienniczych Instytut Włókiennictwa

mgr inż. Jerzy Andrysiak

-verte-

TEST CERTIFICATE NO. BM 4.2.2.1 / 2017 / B / A

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 3; 3; 3; 3,5; 4 4 3; 4; 4; 3,5; 4	PN-EN ISO 13936-2:2005 the conditioned sample, tensile machine: 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
Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: A category: ≤ 4 mm ; B category	orv: < 6 mm: C cat.	egory: ≤8 mm

The end of Test Certificate	

Person authorizing the Test Certificate

Name and surname:

Function: Signature Zastępca Kierownika Laboratorium Bydań Surowców i Wyrobów Wokianniczych Instytut Wokiennictwa

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,





AB 164

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

TEST CERTIFICATE NO. BM 4.2.2.4 / 2017 / G / 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 fabric PERSIAN, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-23÷07-07
- 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: Ewa Gontarska, Krystyna Wierus

- 1. Test results refer only to the tested material.
- 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.
 Test Certificate presents test results included within accreditation field of testing.
 Test results not included in accreditation scope, if occur, are marked with *\(^{\text{in}}\) in the test results table, at the parameters 2. Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laborator

- 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: 2017-07-13 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 MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function: Signature

Zastepca Kierownika Laboratorium Mokiennietwa

Jerzy Andrysiak

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TEST CERTIFICATE NO. BM 4.2.2.4 / 2017 / G / A

Parameter	Value	Remarks
Colour fastness to artificial light, grade - beige colour - cream colour - grey colour	6 6 6	PN-EN ISO 105-B02:2014-11 Method 2 device type: Xenotest Alpha HE, exposure conditions according to this European Standard paragraph 7 table 2: conditions of temperate zone - exposure cycle A1, Assesment: Visual assessment by comparison with blue wool light fastness references: from 1 (very low colour fastness) to 8 (very high colour fastness)
Evaluation _according to PN-EN 14465:2005+A1:20 A category: grade ≥ 6; B category	007: v: grade ≥ 5;	C category: grade ≥ 4;

	The end of Test Certificate	N. W. Control
1.	The end of Test Certificate	

Person authorizing the Test Certificate

Name and surname: Laboratorium Polan Surowców
Function: Instytut Wikienniczych
Signature

Signature

mgr inż. Verzy 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

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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 4.2.2.3 / 2017 / 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 fabric PERSIAN, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-26÷28
- 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.

- 1 est 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 manufacture of the manufacture of the manufacture.
 5. Measurement uncertainty, if it is specified, has been determined according to the manufacture. and coverage factor k = 2.

Certificate date: 2017-07-13 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 MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function: Signature

Zastep ladań Surowców Laboratori Włókiennictwa mgrunz, Jerzy Andrysiak

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boratorium Badasi Surowców

TEST CERTIFICATE NO. BM 4.2.2.3 / 2017 / 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 the conditioned sample,
Abrasion resistance, number of rubs	1 specimen	18 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa,
	2 specimen	18 000	magnification factor in the magnifying device: 8,
	3 specimen	6 000	in holders used foam. Criterion of destruction of the testing
	4 specimen	12 000	specimens in accordance with that standard: three threads completely wiped and chenille cover is completely wiped
	5 specimen	12 000	
	6 specimen	8 000	
	7 specimen	12 000	
	8 specimen	12 000	
	Total abrasion resistance (the lowest individual result)	6 000	

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 ÷ 10 000

The end of Test Certificate

Person authorizing the Test Certificate

Person autnorizing bispeca Kierownika
Name and surname: atonum Badan Surowców
Wyrobów Włokienniczych
Instytut Włókienniczych
Signature

mgr inż. Jery Andrysiak



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TEST CERTIFICATE NO. BM 4.2.2.2 / 2017 / 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 fabric PERSIAN, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-27
- 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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- Laboratorium Sade i Surowców
- 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: 2017-07-13 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 MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Anan Surowców Laboratorium

mgr inż. Jerzy Andrysiak

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TEST CERTIFICATE NO. BM 4.2.2.2 / 2017 / B / A

Par	ameter	1	Value	Remarks
Propensity	the number of rubs			PN-EN ISO 12945-2:2002
to surface fuzzing	500		5	(modified Martindale method)
and pilling,	1 000		5	the conditioned sample, the abradant: the standard woolen fabric;
	2 000		5	mass of weight: 415 ± 2 g;
		No	change	3,
Evaluation according	g to_PN-EN 14465:2005	+A1:2007:	A categor	y: grade $\geq 4-5$; B category: grade 4;
C category: grade 3	-4; D category: gra	ade 3	-	

The end of Test Certificate	
 The state of the s	

Person authorizing the Test Certificate

Name and surname:

Function:

Signature

Zastępcz Zerownika
Laboratorium padań Surowców
i Wyrobów Wiokienniczych
Instytuj Wiokiennictwa