TEST CERTIFICATE NO. BM 2.19.1.3 / 2015 / B / A

Parameter		Value	Remarks		
	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2000 + AC:2006 + PN-EN 14465:2005+A1:2007, Annex A Test conditions:		
Abrasion resistance, number of rubs	1 specimen	50 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa magnification factor in the magnifying		
	2 specimen	50 000	device: 8, in holders used foam.		
	3 specimen	50 000	Criterion of destruction of the testing specimens in accordance with that standard		
	4 specimen	50 000	Local wiping of the cover on the surface 5 mm ² without damaging the treads of rows		
	Total abrasion resistance (the lowest individual result)	50 000	and columns in the knitted fabric		

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 ÷ 40 000, C category: number of rubs: 10 000 ÷ 20 000

	The end of Test Certificate	
±		Kierownik Person authorizing: The Fest Certificate ow
		Instytut Vikkiennictwa
		mgr inż. Halina Królikowska

TEST CERTIFICATE NO. BM 2.19.1.1 / 2015 / B

TEST CERTIFICATE		Remarks
Parameter	Value	PN-EN ISO 13936-2:2005
Warp The mean value of seam slippage resistance for lengthwise direction, mm individual results, mm Weft The mean value of seam slippage resistance for crosswise direction, mm	3 2,5; 3,5; 2,5; 3; 3,5 2 2,5; 2; 2; 2,5; 2	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 testing specimens: 5

The end of Test Cer	rtificate
The end of 2	is in the Test Certificate
	Person authorizing the Test Certificate
	abdrato Workie nniczych
	mgr inż. Halina Królikowska
	High miz.

TEST CERTIFICATE NO. BM 2.19.1.2 / 2015 / B / A

	TEST CERTIFIC	CATE NO. BM 2.17.1	Remarks
Para	nmeter	Value	TRUE O 12945-2:2002
Propensity to surface fuzzing and pilling,	the number of rubs 500 1 000 2 000	5 5 no change	(modified Martindate measure) Test conditions: the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;
Evaluation accord C category: grade	ing to_PN-EN 14465:200 23 - 4; D category: §	5+A1:2007: A category grade 3 The end of Test Certification in the control of th	

The end of Test Cer	tificate
The end of To-	authorizing Heritar Badan Surowed
	i Vyrbów Włókienniczych
	mgrinz. Halina Królikowsk



92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163101, fax.+48(0)42 6792638

Laboratory of Chemical Testing and Instrumental Analysis

Accredited by Polish Center for Accreditation for the testing specified in Scope of Accreditation No AB 077

92-103 Lodz, Brzezińska 5/15 Street phone no. (0-42) 61-63-130 (120, 128), fax (0-42) 61-63-131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl





AB 077

Łódź 4th January 2016

L - 710/2015

TEST CERTIFICATE No BCH 679/1666/2015/A

Name and address of the principal:

"TOPTEXTIL" Sp. z o.o.

ul. Wadowicka 12, 30 - 415 Kraków

Name and description of tested sample: sample of furniture upholstery fabric LUKSOR - material composition:

100% Polyester

3. Date of receiving sample for testing:

16.12.2015

4. Date of performance of testing:

16.12. - 31.12.2015

5. Sampling:

by Client personally

RESULTS OF THE TESTS

Property of	Results	Testing method	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
investigation				A	В	С
Colour fastness to rubbing: - Dry 1) 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

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.

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.

Total number of pages of the test certificate 1.

Test authorized by:

Zdzisława Mrozińska, M.Sc. Eng.

Number of copies: 4

The test certificate receive:

Customer – 2 copies

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

IW - Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy

Confirmed by

LABORATORIUM BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz

a/ staining rubbing to cotton



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AB 077

92-103 Lodz, Brzezińska 5/15 Street phone no. (0-42) 61-63-130 (120, 128), fax (0-42) 61-63-131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

Łódź 4th January 2016

L - 710/2015

TEST CERTIFICATE No BCH 679/1666/2015/A/1

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 of furniture upholstery fabric LUKSOR - material composition:

100% Polyester

3. Date of receiving sample for testing:

16.12.2015

4. Date of performance of testing:

16.12. - 31.12.2015

5. Sampling:

by Client personally

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: - artificial light ²⁾	a/ 5	PN-EN ISO 105- B02:2014-11 Method 2	Device: Xenotest Alpha + <u>Light conditions:</u> - wavelenght: 300-400nm - filters: 7IR - 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

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.
- 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.
- Total number of pages of the test certificate 1.

Test authorized by:

Zdzisława Mrozińska, M.Sc. Eng.

Number of copies: 4

The test certificate receive:

- Customer 2 copies
- IW Laboratory of Chemical Testing and Instrumental Analysis 1 copy
- IW Laboratory of Testing Textile Raw Materials and Fabrics 1 copy

Confirmed by

LABORATORIUM BADAN CHEMICZNYCH I ANALIZ INSTRU KIERÓ

mgr inż. Jerzy Piestrzeniewicz



92-103 Łódź, ul. Brzezińska 5/15, tel. +48(0)42 6163101, fax.+48(0)42 6792638



LABORATORY OF FLAMMABILITY TESTING

90-520 Łódź, ul. Gdańska 118, tel.: +48(0) 42 2534435, +48(0)42 2534436, fax.+48(0)42 2534490

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 5/BP/16

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 30-414 Kraków

Subject of testing:

Upholstery composite:

- upholstery fabric for furniture named LUKSOR

composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

Testing sample of fabric and its characteristic supplied by the Orderer.

INSTYTUT WE SKIENNICTWA ul. Gdańska 118, 90-520 Łódź tel. 42 25 34 400, fax42 2 3 34 490

Results of testing.

sults of testing.		Result
Standard PN-EN 1021-1:2014-12	andering cigarette	Neither progressive smouldering ignition nor flaming ignition occurred.
	1.14	ection of materials under the parties

The above test results relate only to the ignition 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.

technician Andrzej Kubacki

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr inż. Malgorzata Szejna M. On. 2006

Sample received on:

16.12.2015 08.01.2016

Test performed on:

NOTES:

- 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

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



Test Certificate No 5/BP/16 continued

DETAILED TESTING RESULTS

humidity $(50 \pm 5) \%$ Climate conditions: temperature (23 ± 2) °C; humidity 31 %

Testing conditions: temperature 23 °C;

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

Upholstery composite characteristic:

upholstery composite:

- upholstery fabric for furniture named LUKSOR

composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

- CM-3040 poly	rurethane flame-retardant foam	C	igarette		Remarks
	Criteria Unsafe escalating combustion	1 NO NO	2 NO NO	3	Maximum cigarette smouldering time:
	Test assembly consumed	NO NO	NO NO	-	14 minutes 41 seconds
Smouldering	a soulders through inickliess	NO	NO	-	Maximum upholstery composite destruction:
1 4 0410	Smoulders more than 1 hour In final examination, presence of active	NO	NO	-	l reigontal [mm] vertical [mm]
	smouldering	NO	NO	-	horizontal [IIIII] length width depth length width depth length width depth 64 17 12 67 18 10
Flaming criteria	Occurrence of flames		laming ig	nition of	ecurred.

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



END OF THE TEST CERTIFICATE