

ENZERE WESTER

92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163140, 42 6163141, fax.+48(0)42 6792638





Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego

Laboratorium Badań Surowców i Wyrobów Włókienniczych

Siedziba: ul. Brzezińska 5/15, 92-103 Łódź, tel. +48(0) 42 6163140 Siedziba: ul. Gdańska 118. 90-520 Łódź. tel. +48(0) 42 2534421





AB 164

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

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

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o. "Wadowicka Str.12; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product LUKSOR, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 14.12.2015
- 4. Date of test performance: 07.01.2016
- 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 noit includet 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: 08.01.2016 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: Halina Królikowska

Function: Signature: Head of the Laboratoryn Surowców i Wyrobów Włókienniczych Irstylyt Włókiennictwa

mgr inz. Halina królikowyerte-



Laboratorium Badań Surowców
12-103 Łóż, ul. Brzezińska Eu-

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 <i>Test conditions:</i>
Abrasion resistance, number of rubs	1 specimen	50 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa
	2 specimen	50 000	magnification factor in the magnifying device: 8,
	3 specimen	50 000	in holders used foam. 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 mm² 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 \div 40 000, C category: number of rubs: 10 000 \div 20 000

Kierownik g thei Fest Certificate ow Wropówi Włókienniczych Inst/Jut Wiekiennictwa
C V



92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163140, 42 6163141, fax.+48(0)42 6792638





Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego

Laboratorium Badań Surowców i Wyrobów Włókienniczych

Siedziba: ul. Brzezińska 5/15, 92-103 Łódź, tel. +48(0) 42 6163140 Siedziba: ul. Gdańska 118. 90-520 Łódź. tel. +48(0) 42 2534421

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS

TEST CERTIFICATE NO. BM 2.19.1.1 / 2015 / B

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o. , Wadowicka Str. 12; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product LUKSOR, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 14.12.2015
- 4. Date of test performance: 30.12.2015
- 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: Małgorzata Plac

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. 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: 08.01.2016 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: Halina Królikowska

Function: Head of the Laboratory Surowców

Signature:

i Wyrobów Włókienniczych Instytut Włókiennictwa

mgr inż. Halina Królikowska



TEST CERTIFICATE NO. BM 2.19.1.1 / 2015 / B

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp	10.14	PN-EN ISO 13936-2:2005 Test conditions:
The mean value of seam slippage resistance for	3	tensile tester: Hounsfield H50 KM, testing force: 180 N,
lengthwise direction, mm - individual results, mm	2,5; 3,5; 2,5; 3; 3,5	100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110
Weft The mean value of seam slippage resistance for crosswise direction, mm	2	the number of stitch: 32±2/100 mm rate of extension: 50 mm/min. number of testing specimens: 5
- individual results, mm	2,5; 2; 2; 2,5; 2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

The end of	Test Certificate	

Person authorizing the Test Certificate

mgr inż. Halina Królikowska



MALAL WEOKIEZZICIWA

92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163140, 42 6163141, fax.+48(0)42 6792638





Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego

Laboratorium Badań Surowców i Wyrobów Włókienniczych

Siedziba: ul. Brzezińska 5/15, 92-103 Łódź, tel. +48(0) 42 6163140 Siedziba: ul. Gdańska 118, 90-520 Łódź, tel. +48(0) 42 2534421





AB 164

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

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

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o. "Wadowicka Str.12; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product LUKSOR, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 14.12.2015
- 4. Date of test performance: 05.01.2016
- 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: Małgorzata Plac

- 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 noit includet 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: 08.01.2016 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: Halina Królikowska

Function: Signature:

Head of the Laboratory k
Laboratory Badan Suroweów
i Wwobin Włókienniczych

mgr inz. Halina Królikowskate-

ókiennictwa



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

Parameter		Value	Remarks				
Propensity to surface fuzzing	the number of rubs 500 5		PN-EN ISO 12945-2:2002 (modified Martindale method)				
and pilling,	pensity the number of rubs 500 pilling, 1 000 2 000 luation according to PN-EN 14465:200	5	Test conditions: the abradant: the standard woolen fabric;				
	2 000	5 no change	mass of weight: 415 ± 2 g;				
			grade $\geq 4-5$; B category: grade 4;				

<u>-4;</u>	D category: grade 3	
	The end of Test Certificate	
		Person authorizing the Test Certificate
		nstytu Wickienniczych nstytu Wickiennictwa mgwinz. Halina Królikowska



tel. +48(0)42 6163101, fax.+48(0)42 6792638





AB 077

Łódź 4th January 2016

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

L - 710/2015

TEST CERTIFICATE No BCH 679/1666/2015/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 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 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 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.

Number of copies: 4 The test certificate receive:

- Customer – 2 copies

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

Confirmed by

LABORATORIUM BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWN, IK

mgr inż. Jerzy Piestrzeniewicz



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





AB 077

Łódź 4th January 2016

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

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				
	M. Veorigue		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.

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 KIEROW

mgr inż. Jerzy Piestrzeniewicz



POLSKIE CENTRUM AKREDYTACJI AB 029

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 WŁÓKIENNICTWA ul. Gdańska 118, 90-520 Łódź tel. 42 25 34 400, fax42 25 34 490

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

Test Certificate authorized by:

Laboratorium Sadań Palności Wyrobów KIEROWNIK

mgr inż. Małgorzata Szejna M. OM. 2016

Sample received on:

16.12.2015

Test performed on:

08.01.2016

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.



Test Certificate No 5/BP/16 continued

DETAILED TESTING RESULTS

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

Testing conditions: temperature 23 °C;

humidity 31 %

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 for furniture named LUKSOR composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

	Criteria	(Remarks							
	Citteria	1	2	3			Ken	iaiks		
	Unsafe escalating combustion	NO	NO	_	Maximum cigarette smouldering time:		ette			
	Test assembly consumed	NO	NO	-						
Smouldering	Smoulders to extremities	NO	NO	-	14 minutes 41 second					
criteria	Smoulders through thickness	NO	NO	-		onds				
CITICITA	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction					
Flaming		NO		-:	horizo	ontal [n	nm]	ver	tical [m	m]
criteria	Occurrence of flames		NO		length 64	width	depth 12	length 67	width 18	depth 10

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

)

END OF THE TEST CERTIFICATE





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

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

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

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

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr inż. Malgorzata Szejna M. OM. 2016

Sample received on: Test performed on:

16.12.2015 08.01.2016

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
- The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.



Test Certificate No 5/BP/16 continued

DETAILED TESTING RESULTS

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

Testing conditions: temperature 23 °C; humidity 31 %

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 for furniture named LUKSOR

composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

	Criteria		Cigarette				Remarks				
	Criteria	1	2	3	Remarks						
	Unsafe escalating combustion		NO	-	Maximum cigarette						
	Test assembly consumed	NO	NO	_	smouldering time:						
G 11	Smoulders to extremities	NO	NO	-							
Smouldering criteria	Smoulders through thickness	NO	NO	-	14 minutes 41 seconds			onds			
Criteria	Smoulders more than 1 hour	NO	NO	_							
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:						
Flaming					horizo		nm]	ver	tical [m		
criteria	Occurrence of flames	NO	NO	-	length 64	width	depth 12	length 67	width 18	depth 10	

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



END OF THE TEST CERTIFICATE