



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 Report no. 19.8.1 / 2014 / G / A

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o.,
30-415 Kraków, 12 Wadowicka Str.
2. **Name and description of tested material:** the sample: **the upholstery fabric LINCOLN**,
declared raw materials: 100% Polyester
3. **Date of receiving material for testing:** 2014-08-14
4. **Date of test performance:** 2014-08-19
5. **Samples taken:** correct sample size delivered 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: Iwona Rybak

1. *Test results refer only to the tested material.*
2. *Neither of the parts of this report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.*
3. *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 result 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 $k=2$*

Report date: 2014-08-19

Number of report copies: 4

Test report handed to:

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- 2) Laboratory for Testing Textile Raw Materials and Fabrics (location: 5/15 Brzezińska str.) - 1 copy,
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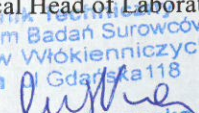
Report prepared by:

Zofia Mokwińska M.Sc. Eng

Person authorizing the Test Report:

Surname and name: Beata Witkowska, Ph. D.

Function: Technical Head of Laboratory

Signature: 

Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba ul. Gdańska 118
dr inż. Beata Witkowska



Test Report no. 19.8.1 / 2014 / G / A

Parameter	Value	Remarks
Propensity to surface fuzzing and pilling, degree	the number of rubs	the abradant - the standard woolen fabric
	500	5
	1 000	5
	2 000	5 without change
	5 000	5 without change
		PN-EN ISO 12945-2:2002 load - 415 g, the number of testing specimens - 3, the number of assessment persons - 3, <u>Assessment scale:</u> degree 5 - without change, degree 1 - strong fuzzing and intensive pilling on the whole area of sample.

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", the upholstery fabric LINCOLN, declared raw materials: 100% Polyester, was classified as:

- **Level A** in reference to the fuzzing and pilling (Level A: \geq degree 4-5, after 2 000 rubs).

The end of the Test Report

Person authorizing the Test Report:

Kierownik Techniczny
Laboratorium Badań Surowców
i Wytrobów Włókienniczych
siedziba ul. Gdańska 118

dr inż. Beata Witkowska

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

REPORT ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 54 / BP / 14

Test method:

PN-EN 1021-1:2007 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 composition:

- upholstery fabric named **LINCOLN**,
composition: 100% polyester
- CM-3040 polyurethane foam, flame-retardant

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

INSTYTUT WŁÓKIENICTWA
Oddział ul. Gdańska 118
90-520 Łódź, tel. 42 2534400, fax 42 2534490
NIP 724-000-06-64 REGON 000050239

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2007	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
Andrzej Kubacki

Report authorized by:

Laboratorium Badań Palności Wyrobów
KIEROWNIK

M. Szejna
mgr inż. Małgorzata Szejna

Sample received on: 11.03.2014

Test performed on: 26.03.2014

NOTES:

1. The Testing results refer only to the tested sample.
2. The report consists of 2 pages.
3. The report 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 report is responsible for the conformity between the product and sample submitted for testing.

The Testing Laboratory, accredited by the Polish Centre for Accreditation (PCA), has Certificate AB 029 within the scope of tests concerning: the flame retardance, high temperature resistance, liquid chemicals resistance and characteristics of smoke formation in combustion processes

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %
 Testing conditions: temperature 20 °C; humidity 35 %

Upholstery composite characteristic:

Upholstery composition:

- upholstery fabric named LINCOLN, exposed to wetting in water and drying procedure, composition: 100% polyester,
- CM-3040 polyurethane foam, flame-retardant

Criteria		Cigarette		Remarks						
		1	2							
Smouldering criteria	Unsafe escalating combustion	NO	NO	Maximum cigarette smouldering time: 16 minutes 49 seconds						
	Test assembly consumed	NO	NO							
	Smoulders to extremities	NO	NO							
	Smoulders through thickness	NO	NO	Maximum upholstery composite destruction:						
	Smoulders more than 1 hour	NO	NO							
In final examination, presence of active smouldering		NO	NO							
Flaming criteria	Occurrence of flames	NO	NO	horizontal [mm]			vertical [mm]			
				length	width	depth	length	width	depth	
				71	20	11	72	21	9	

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

END OF THE REPORT

Laboratorium Badań Surowców i Wyrobów Włókienniczych

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AB 164

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

BM-904-36.4-G/13

Test Report no. 36.4.1 / 2013 / G / A

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o.,
30-415 Kraków, 12 Wadowicka Str.
2. **Name and description of tested material:** the sample: the upholstery fabric LINCOLN,
declared raw material: 100 % polyester
3. **Date of receiving material for testing:** 2013-10-25
4. **Date of test performance:** 2013-10-31÷2013-11-14
5. **Samples taken:** correct sample size taken by the Client
and delivered in appropriate state for testing
6. **Tests carried out according to:** methods presenting in testing table

Results of Laboratory Tests

see page 2/2

Test performed by: Ewa Gontarska M.Sc. Eng

1. *Test results refer only to the tested material.*
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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.*

Report date: 2013-11-14

Number of report copies: 4

Test report handed to:

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Report prepared by:

Zofia Mokwińska M.Sc. Eng

Person authorizing the Test Report:

Surname and name: Beata Witkowska, Ph. D.

Function: Technical Head of Laboratory

Signature:
Kierownik Techniczny
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba ul. Gdańska 118

dr inż. Beata Witkowska

Test Report no. 36.4.1 / 2013 / G / A

Parameter	Value	Remarks
Seam slippage resistance, mm: <u>Warp</u> The mean value of seam slippage resistance for warp, mm - individual results, mm <u>Weft</u> The mean value of seam slippage resistance for weft, mm - individual results, mm	 3 ± 0 3; 3; 3; 3; 3 4 ± 0 4; 4; 4; 4; 4	PN-EN ISO 13936-2:2005 tensile tester Instron 3367, testing force - 180N, 100% PES sewing threads – 79 tex, the number of sewing needle - 110, the number of stitch - 32/100 mm, rate of extension - 50 mm/min.
Abrasion resistance, number of rubs color change after 3 000 rubs, grade of grey scale 1 specimen 2 specimen 3 specimen 4 specimen Total abrasion resistance (the lowest individual result)	 5 50 000 50 000 50 000 50 000 50 000	PN-EN ISO 12947-2:2000 +AC:2006 + PN-EN 14465:2005+A1:2007 the abradant – the standard woollen fabric, the nominal pressure used in the test - 12 kPa, magnification factor in the magnifying device - 8, in holders used foam.
Criterion of breakdown: flat woven fabric - three threads are completely broken.		

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", the upholstery fabric LINCOLN was classified as:

- Level A in reference to the seam slippage resistance (Level A: ≤ 4 mm),
- Level A in reference to the abrasion resistance (Level A: ≥ 35 000 rubs).

The end of the Test Report

Person authorizing the Test Report:

Kierownik Techniczny
 Laboratorium Badań Surowców
 i Włóknienniczych
 siedziba ul Gdańska 118
 dr inż. Beata Witkowska



**Laboratorium Badań Surowców
i Wyrobów Włókienniczych**

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AB 164

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

BM-904-36.4-G/13

Test Report no. 36.4.2 / 2013 / G / A

- 1. Test ordered by:** „TOPTEXTIL” Sp. z o.o.,
30-415 Kraków, 12 Wadowicka Str.
- 2. Name and description of tested material:** the sample: the upholstery fabric LINCOLN,
declared raw material: 100 % polyester
- 3. Date of receiving material for testing:** 2013-10-25
- 4. Date of test performance:** 2013-11-05÷07
- 5. Samples taken:** correct sample size taken by the Client
and delivered in appropriate state for testing
- 6. Tests carried out according to:** methods presenting in testing table

Results of Laboratory Tests

see page 2/2

Test performed by: Ewa Gontarska M.Sc. Eng

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Report prepared by:

Zofia Mokwińska M.Sc. Eng

Person authorizing the Test Report:

Surname and name: Beata Witkowska, Ph. D.

Function: Technical Head of Laboratory

Signature:
Kierownik Techniczny
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba ul. Gdańska 118
dr Inż. Beata Witkowska




INSTYTUT WŁÓKIENICTWA
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92-103 Łódź, ul. Brzezińska 5/15
Siedziba Laboratorium
90-520 Łódź, ul. Gdańska 118

Test Report no. 36.4.2 / 2013 / G / A

Parameter	Value	Remarks
The mean value of dimensional change after washing and drying, % - lengthwise direction - crosswise direction	- 0,5 ± 0,0 - 1,5 ± 0,0	PN-EN ISO 5077:2011 PN-EN ISO 3759:2011 number of washings / washing procedure number / drying procedure according to: PN-EN ISO 6330:2012 1x / 4N at temperature 40 °C / procedure A – Line dry, mass of the samples – 195 g, type of ballast: - III, reference detergent 3, number of samples – 3, (-) shrinkage, (+) extension.

The end of the Test Report

Person authorizing the Test Report:

Kierownik Techniczny
 Laboratorium Badań Surowców
 i Wytrobów Włókienniczych
 siedziba ul. Gdańska 118

 dr inż. Beata Witkowska

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) 67-92-638
 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl



AB 077

Lodz 05.11.2013

L - 590/2013

TEST REPORT No BCH 538/1000/2013/A

1. Name and address of the principal: **“TOPTEXTIL” Sp. z o. o.**
12 Wadowicka Street
30-415 Kraków Poland
2. Name and description of tested sample: Sample no 2 - furniture upholstery LINCOLN,
 declared fiber composition of 100% polyester
3. Date of receiving sample for testing: 30.10.2013
4. Date of performance of testing: 04.11.2013 – 05.11.2013
5. Sampling: by client personally

RESULTS OF THE TESTS

Property of investigation	Results	Method of the test	Requirements level according to PN-EN 14465:2005+A1:2007 Table 3
Colour fastness to washing 40 ⁰ C /Linitest: washer medium ECE, steel balls 10 pieces /	a/ 5 b/ 4-5 c/ 4-5	PN-EN ISO 105-C06: 2010 method A1S	Category A a/ 4-5 b/ 4 c/ 4

- a/ change of colour
- b/ staining – polyester
- c/ staining – cotton

With regard to the requirements of PN EN 14465:2005 + A1: 1997 "Textiles. Furniture products. Specification and test methods", testing sample named: **furniture upholstery LINCOLN declared fiber composition of 100% polyester** was classified to: **category A** for color fastness to mechanical washing at 40 ° C according to Polish standards PN-EN ISO 105-C06: 2010 method A1S.

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 report can be copied without written permission of the Head of the Laboratory.
4. Total number of pages of the report 2

Test authorized by:
Wiesława Lota M. Sc. Eng

W. Lota

Confirmed by:

LABORATORIUM BADAŃ CHEMICZNYCH
I ANALIZ INSTRUMENTALNYCH
KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz

Number of copies: 4

The report of the tests receive:

- Client - 2 copies
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- IW – Laboratory of Chemical Testing and Instrumental Analysis - 1 copy