

**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 2.17.1.3 / 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 fabric EVEREST, declared raw material composition: 100 % Polyester*
3. **Date of receiving material for testing:** 09.12.2015
4. **Date of test performance:** 29.12.2015
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:** 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:** 30.12.2015**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: Head of the Laboratory

Signature:

  
 mgr inż. Halina Królikowska

 INSTYTUT WŁÓKIENICTWA  
 Laboratorium Badań Surowców  
 i Wyrobów Włókienniczych  
 92-103 Łódź, ul. Brzezińska 5/15

# TEST CERTIFICATE NO. BM 2.17.1.3 / 2015 / B / A

Parameter		Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4	PN-EN ISO 12947-2:2000 + AC:2006 + PN-EN 14465:2005+A1:2007, Annex A <i>Test conditions:</i> 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 <u>destruction of the testing specimens in accordance with that standard:</u> Local wiping of the cover on the surface 5 mm <sup>2</sup> without damaging the treads of rows and columns in the knitted fabric
	1 specimen	35 000	
	2 specimen	35 000	
	3 specimen	35 000	
	4 specimen	35 000	
	<b>Total abrasion resistance</b> (the lowest individual result)	<b>35 000</b>	
<u>Evaluation:</u> according to PN-EN 14465:2005 + A1:2007: A category: number of rubs $\geq 45\ 000$ rubs, <b>B category: number of rubs: 25 000 ÷ 40 000,</b> C category: number of rubs: 10 000 ÷ 20 000			

The end of Test Certificate

Person authorizing the Test Certificate

Kierownik  
 Laboratorium Badań Szurowców  
 i WYROBÓW WŁÓKNIENICZYCH  
 Instytut Włóknictwa  
 mgr inż. Halina Królikowska



**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 2.17.1.2 / 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 fabric EVEREST, declared raw material composition: 100 % Polyester*
3. **Date of receiving material for testing:** 09.12.2015
4. **Date of test performance:** 21.12.2015
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:** Elżbieta Olczak

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**Certificate date:** 30.12.2015**Number of Certificate copies:** 2**Test Certificate handed to:**

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- 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: Head of the Laboratory

Signature:

mgr inż. Halina Królikowska-verte-  
Laboratorium Badań Surowców  
i WYROBÓW WŁÓKIENNICZYCH  
Instytut Włókiennictwa

**TEST CERTIFICATE NO. BM 2.17.1.2 / 2015 / B / A**

Parameter		Value	Remarks
Propensity to surface fuzzing and pilling,	<i>the number of rubs</i>		PN-EN ISO 12945-2:2002 (modified Martindale method) <i>Test conditions:</i> the abrasant: the standard woolen fabric; mass of weight: 415 ± 2 g;
	500	4 - 5	
	1 000	4 - 5	
	2 000	4 Slight surface fuzzing	
Evaluation according to PN-EN 14465:2005+A1:2007: A category: grade ≥ 4 – 5; <b>B category: grade 4;</b> C category: grade 3 – 4;    D category: grade 3			

\_\_\_\_\_ The end of Test Certificate \_\_\_\_\_

**Person authorizing the Test Certificate**

mgr inż. Halina Krolikowska  
 Laboratorium Badań Surowców  
 i Wytrobów Włókienniczych  
 Instytut Włókiennictwa





## Laboratorium Badań Surowców i Wyróbów 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 2.17.1.1 / 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 EVEREST, declared raw material composition: 100 % Polyester*
3. **Date of receiving material for testing:** 09.12.2015
4. **Date of test performance:** 29.12.2015
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.*
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**Certificate date:** 30.12.2015

**Number of Certificate copies:** 2

**Test Certificate handed to:**

- 1) TOPTEXTIL Sp. z o.o., Kraków - 1 copies
- 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: Head of the Laboratory

Signature:

Kierownik  
Laboratorium Badań Surowców  
i Wyróbów Włókienniczych  
Instytut Włókiennictwa

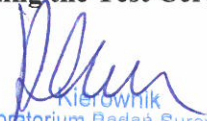
mgr inż. Halina Królikowska

**TEST CERTIFICATE NO. BM 2.17.1.1 / 2015 / B**

Parameter	Value	Remarks
<b>Seam slippage resistance, mm:</b> <u>Warp</u> <b>The mean value of seam slippage resistance for lengthwise direction, mm</b> - individual results, mm	<b>2</b>  2; 2; 2; 1,5; 2	PN-EN ISO 13936-2:2005 <i>Test conditions:</i> 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
<u>Weft</u> <b>The mean value of seam slippage resistance for crosswise direction, mm</b> - individual results, mm	<b>2</b>  1,5; 1,5; 2; 1,5; 1,5	

\_\_\_\_\_ The end of Test Certificate \_\_\_\_\_

**Person authorizing the Test Certificate**

  
 Kierownik  
 Laboratorium Badań Surowców  
 i Wyrobów Włókienniczych  
 Instytut Włókiennictwa  
 mgr inż. Halina Królikowska



## Laboratory of Chemical Testing and Instrumental Analysis

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

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 29<sup>th</sup> December 2015

L - 697/2015

### TEST CERTIFICATE No BCH 666/1643/2015/A/1

2. 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 EVEREST – material composition: 100% Polyester
3. Date of receiving sample for testing: 10.12.2015
4. Date of performance of testing: 10.12. – 29.12.2015
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	B	C
Colour fastness to: - artificial light <sup>2)</sup>	a/ 6-7	PN-EN ISO 105-B02:2014-11 Method 2	Device: Xenotest Alpha + <u>Light conditions:</u> - wavelength: 300-400nm - filters: 7IR - BST temperature = $47 \pm 3$ °C - chamber temperature: $45 \pm 3$ °C - RH = 40% Estimation: Multilight chamber, light D65	$\geq 6$	$\geq 5$	$\geq 4$

<sup>1)</sup> 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](http://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:  
Wiesława Lota, M.Sc. Eng.

*W. Lota*

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 BADAŃ CHEMICZNYCH  
I ANALIZ INSTRUMENTALNYCH  
KIEROWNIK

*mgr inż. Jerzy Piestrzeniewicz*

## Laboratory of Chemical Testing and Instrumental Analysis

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

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 29<sup>th</sup> December 2015

L - 697/2015

### TEST CERTIFICATE No BCH 666/1643/2015/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 EVEREST – material composition: 100% Polyester
- Date of receiving sample for testing:** 10.12.2015
- Date of performance of testing:** 10.12. – 29.12.2015
- 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	B	C
Colour fastness to rubbing:			<u>Acclimatization conditions:</u> temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h;			
- Dry <sup>1)</sup>		PN-EN ISO 105-X12:2005	<u>Test conditions :</u> ambient temperature; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N; degree of moisturising of rubbing to fabric: 100%			
- weft	a/ 4-5			≥ 4-5	4	3-4
- warp	a/ 4-5					
- Wet						
- weft	a/ 4			≥ 3-4	3	2-3
- warp	a/ 4					

<sup>1)</sup> 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:

- In accordance with ISO ILAC-IAF (January 2009) Communicate available on [www.pca.gov.pl](http://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:

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 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





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

TEST CERTIFICATE NO. BM 2.17.1.4 / 2015 / G / 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 fabric EVEREST, declared raw material composition: 100 % Polyester*
3. Date of receiving material for testing: 09.12.2015
4. Date of test performance: 16.12.2015
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: Krystyna Wierus

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  $k = 2$ .

Certificate date: 30.12.2015

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

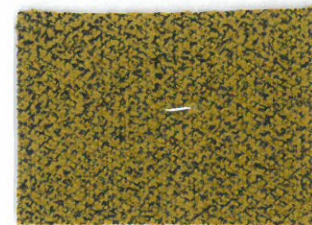
Person authorizing the Test Certificate:

Name and surname: Halina Królikowska

Function: Head of the Laboratory

Signature:

mgr inż. Halina Królikowska  
-verte-



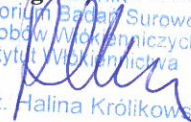
INSTYTUT WŁÓKIENICTWA  
Laboratorium Badań Surowców  
i WYROBÓW WŁÓKIENNICZYCH  
Łódź, ul. Brzezińska 5/15

**TEST CERTIFICATE NO. BM 2.17.1.4 / 2015 / G / A**

Parameter		Value	Remarks
Resistance to surface wetting (Spray test), degree	1 specimen	2 - 3 wetting of the specimen face at spray points and partial wetting of the specimen face beyond the spray points	PN-EN ISO 4920:2013-02 test were carried out in normal climate conditions; water temperature: 20°C; Assessment scale: <b>Sprinkle degree 5</b> – no sticking or wetting of the specimen face, <b>Sprinkle degree 0</b> – complete wetting of the entire face of the specimen
	2 specimen	2 - 3 wetting of the specimen face at spray points and partial wetting of the specimen face beyond the spray points	
	3 specimen	2 - 3 wetting of the specimen face at spray points and partial wetting of the specimen face beyond the spray points	

\_\_\_\_\_ The end of Test Certificate \_\_\_\_\_

**Person authorizing the Test Certificate**

Laboratorium Badań Surowców  
i Wytrobów Włóknianiczych  
Instytut Włóknarstwa  
  
mgr inż. Halina Królikowska



## 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 2 / 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 EVEREST  
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, fax 42 25 34 490

## Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering cigarette	<b>Neither progressive smouldering ignition nor flaming ignition occurred.</b>

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  
KIEROWNIKmgr inż. Małgorzata Szejna  
05.01.2016

Sample received on: 11.12.2015

Test performed on: 04.01.2016

## 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.

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

## DETAILED TESTING RESULTS

Climate conditions: temperature  $(23 \pm 2) ^\circ\text{C}$ ; humidity  $(50 \pm 5) \%$ Testing conditions: temperature  $22 ^\circ\text{C}$ ; humidity  $26 \%$ **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 EVEREST  
composition: 100% polyester
- CM-3040 polyurethane flame-retardant foam

Criteria		Cigarette			Remarks
		1	2	3	
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 16 minutes 33 seconds
	Test assembly consumed	NO	NO	-	
	Smoulders to extremities	NO	NO	-	
	Smoulders through thickness	NO	NO	-	
	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery composite destruction:
	In final examination, presence of active smouldering	NO	NO	-	
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mm]
					length width depth
					vertical [mm] length width depth
					65 15 11 68 14 9

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

END OF THE TEST CERTIFICATE