



## 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 2.18.2.3 / 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 COTONE, declared raw material composition: 80 % Polyester, 20% Cotton*
3. **Date of receiving material for testing:** 11.12.2015
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: 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: 31.12.2015

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: Jerzy Andrysiak

Function: Deputy Head of the Laboratory

Signature: mgr inż. Jerzy Andrysiak -verte-

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

**TEST CERTIFICATE NO. BM 2.18.2.3 / 2015 / B / A**

Parameter		Value	Remarks
Abrasion resistance, number of rubs	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> 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> at least three threads completely destroyed
	1 specimen	40 000	
	2 specimen	35 000	
	3 specimen	45 000	
	4 specimen	45 000	
	<b>Total abrasion resistance</b> (the lowest individual result)	<b>35 000</b>	

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  $\div$  10 000

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

**Person authorizing the Test Certificate**

Zastępca Kierownika  
 Laboratorium Badań Surowców  
 i Wyrobów Włókienniczych  
 Instytut Włókiennictwa  
 mgr inż. Jerzy Andrysiak



Laboratorium Badań Surowców  
i Wyrobów WłókienniczychSiedziba: 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 2.18.2.2 / 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 COTONE, declared raw material composition: 80 % Polyester, 20% Cotton*
3. Date of receiving material for testing: 11.12.2015
4. Date of test performance: 28.12.2015
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: 31.12.2015

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: Jerzy Andrysiak

Function: Deputy Head of the Laboratory

Signature:   
Laboratorium Badań Surowców  
i Wyrobów Włókienniczych  
Instytut Włókiennictwa

mgr inż. Jerzy Andrysiak

-verte-

**TEST CERTIFICATE NO. BM 2.18.2.2 / 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 abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;
	500	5	
	1 000	4 – 5	
	2 000	4 – 5 slight surface fuzzing and partially formed pills	
Evaluation according to PN-EN 14465:2005+A1:2007: A category: grade ≥ 4 – 5; B category: grade 4; C category: grade 3 – 4; D category: grade 3			

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

**Person authorizing the Test Certificate**

Zastępca Kierownika  
Laboratorium Badań Surowców  
i Wytrobów Włókienniczych  
Instytut Włókiennictwa  
mgr inż. Jerzy Andrysiak



**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 2.18.2.1 / 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 COTONE, declared raw material composition: 80 % Polyester, 20% Cotton*
3. **Date of receiving material for testing:** 11.12.2015
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.*
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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:** 31.12.2015**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:**

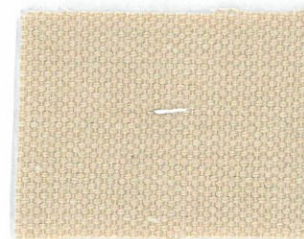
Name and surname: Jerzy Andrysiak

Function: Deputy Head of the Laboratory

Signature: Zastępca Kierownika  
Laboratorium Badań Surowców  
i WYROBÓW WŁÓKIENNICZYCH  
Instytut Włókiennictwa

mgr Inż. Jerzy Andrysiak

-verte-

INSTYTUT WŁÓKNIENICTWA  
Laboratorium Badań Surowców  
i WYROBÓW WŁÓKIENNICZYCH  
92-103 Łódź, ul. Brzezińska 5/15

**TEST CERTIFICATE NO. BM 2.18.2.1 / 2015 / B / A**

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  <u>Weft</u> <b>The mean value of seam slippage resistance for crosswise direction, mm</b> - individual results, mm	   <b>3</b>  3; 3,5; 2,5; 3; 2,5   <b>3</b>  2; 2,5; 3; 2,5 3	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
<b>Evaluation:</b> according to PN-EN 14465:2005 + A1:2007 requirements level: <b>A category: ≤ 4 mm; B category: ≤ 6 mm; C category: ≤ 8 mm</b>		

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

**Person authorizing the Test Certificate**

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 Laboratorium Badań Surowców  
 i Wyrobów Włókienniczych  
 Instytut Włókiennictwa  
 mgr inż. Jerzy Andrysiak



**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 30<sup>th</sup> December 2015

L - 709/2015

**TEST CERTIFICATE No BCH 678/1664/2015/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 GARDEN – material composition: 100% Polyester
- Date of receiving sample for testing:** 16.12.2015
- Date of performance of testing:** 16.12. – 30.12.2015
- 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%	≥ 4-5	4	3-4
- weft	a/ 4-5					
- warp	a/ 4-5					
- Wet				≥ 3-4	3	2-3
- weft	a/ 4-5					
- warp	a/ 4-5					

<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*

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 30<sup>th</sup> December 2015

L - 709/2015

**TEST CERTIFICATE No BCH 678/1664/2015/A/1**

- 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 GARDEN – material composition: 100% Polyester
- Date of receiving sample for testing:** 16.12.2015
- Date of performance of testing:** 16.12. – 30.12.2015
- 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: - artificial light <sup>2)</sup>	a/ 6	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:**

- 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.
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Confirmed by:

LABORATORIUM BADAŃ CHEMICZNYCH  
I ANALIZ INSTRUMENTALNYCH  
KIEROWNIK

*mgr inż. Jerzy Piestrzeniewicz*



**Laboratory of Chemical Testing  
and Instrumental Analysis**

92-103 Łódź, 5/15 Brzezinska Str.

phone no. +48 42 6163130 (120, 128), fax +48 42 6163131

e-mail: [jpiestrzeniewicz@iw.lodz.pl](mailto:jpiestrzeniewicz@iw.lodz.pl), [labchem@iw.lodz.pl](mailto:labchem@iw.lodz.pl)Łódź, 3<sup>rd</sup> October 2017

L - 439/2017

**TEST CERTIFICATE no. BCH 420/968/2017/A**

1. Name and address of the principal: „TOPTEXTIL” Sp. z o. o.  
12 Wadowicka Str., 30-415 Kraków
2. Name and description of tested sample: furniture upholstery fabric COTONE
3. Date of receiving sample for testing: 19<sup>th</sup> September 2017
4. Date of performance of testing: 23<sup>rd</sup> - 25<sup>th</sup> September 2017
5. Sampling: by client personally

**RESULTS OF THE TESTS**

Property of investigation	Results	Method of the test	Tests condition
Colour fastness to: - washing 40 °C <sup>1)</sup>	a/ 4-5 b/ 4 c/ 3-4	PN-EN ISO 105-C06:2010 method A1S	- detergent without optical brightener - ECE Detergent - number of steel balls - 10

<sup>1)</sup> colour fastness according to “Grey scale”, indicator “5” means – no change in colour and in staining adjacent fabric, indicator “1” means – big change in colour

a/ change of colour

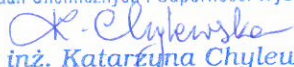
b/ staining adjacent fabric - polyester

c/ staining adjacent fabric - cotton

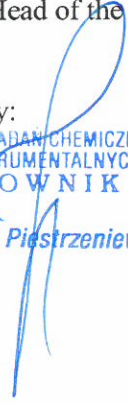
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Test authorized by:

LABORATORIUM BADAŃ CHEMICZNYCH  
I ANALIZ INSTRUMENTALNYCH  
KIEROWNIK TECHNICZNY  
ds. Badań Chemicznych i Odporności Wybarwień  
  
mgr inż. Katarzyna Chylewska

Confirmed by:

LABORATORIUM BADAŃ CHEMICZNYCH  
I ANALIZ INSTRUMENTALNYCH  
KIEROWNIK  
  
mgr inż. Jerzy Piestrzeniewicz

Number of copies: 4

The test certificate receive:

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

**Laboratory of Testing**

**Textile Raw Materials and Fabrics**

92-103 Łódź, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638

90-520 Łódź, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: [bwitkowska@iw.lodz.pl](mailto:bwitkowska@iw.lodz.pl), [jandrysiak@iw.lodz.pl](mailto:jandrysiak@iw.lodz.pl)

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

**TEST CERTIFICATE NO. BM 4.5.1 / 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 COTONE, declared raw material composition: 80 % Polyester, 20% Cotton**
3. **Date of receiving material for testing:** 2017-09-19
4. **Date of test performance:** 2017-09-21÷25
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

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**Certificate date:** 2017-10-03

**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 MSc Eng

**Person authorizing the Test Certificate:**

Name and surname:

Function:

Signature

Zastępca Kierownika  
Laboratorium Badań Surowców  
i Wytworów Włókienniczych  
Instytut Włókiennictwa

mgr inż. Jerzy Andrysiak

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

-verte-



# TEST CERTIFICATE NO. BM 4.5.1 / 2017 / B / A

Parameter		Value	Test method
The mean of dimensional change after once washing and drying, %	longitudinal direction	- 1,5	PN-EN ISO 5077:2011 PN-EN ISO 3759:2011 PN-EN ISO 6330:2012 the conditioned sample, number of test specimens: 3, washing times: x 1, washing procedure: 4N (washing temperature: 40°C), drying procedure: A method (line dry) (-) shrinkage, (+) extension
	cross direction	- 0,5	
Evaluation according to PN-EN 14465:2005+A1:2007: <b>A category: ± 2%;</b> B category:    ± 3%			

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

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 Laboratorium Badań Surowców  
 i Wyrobów Włókienniczych  
 Instytut Włókiennictwa  
 mgr inż. Jerzy Andrysiak