





92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: bwitkowska@iw.lodz.pl, 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 12.6.2.1 / 2018 / 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 KENIA, declared raw material composition: 67% Olefin, 33% Polyester
- 3. Date of receiving material for testing: 2018-04-19
- 4. Date of test performance: 2018-04-26
- 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**

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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 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: 2018-04-27 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:

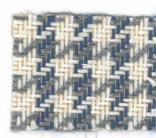
Name and surname:

Function:

Signature

Zastępca Kierownika Laboratorium Baylań Surowców i Wyrobów Wokienniczych Instytut Wiekiennictwa

mgr inż. Jerzy Andrysiak



Laboratory;

FYTUT WŁÓKIENNICTMA Dratorium Badań Surowców Wrobów Włókienniczych 33 Łódź, ul. Brzezińska 5/15

# TEST CERTIFICATE NO. BM 12.6.2.1 / 2018 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm:  Warp The mean value of seam slippage resistance for warp direction, mm - individual results, mm  Weft The mean value of seam slippage resistance for weft direction, mm - individual results, mm	4 4; 4,5; 5; 4; 4 5 5; 3,5; 3,5; 5,5; 5,5	PN-EN ISO 13936-2:2005 the conditioned sample, tensile machine: 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 test specimens: 5
Evaluation: according to PN-EN 14465:2005 + A requirements level: A category: ≤ 4 mm; <b>B</b> cat	A1:2007 tegory: ≤6 mm; C ca	ategory: ≤8 mm

The end of Test Certificate	
The end of Test Certificate	

Person authorizing the Test Certificate

Zastępca Kierwnika Laboratorium Badan Surowców i Wyrobów Włokierniczych Instytut Włókiernictwa mgr inż. Jerzy Andrysiak







92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

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

### **TEST CERTIFICATE NO. BM 12.6.2.2 / 2018 / 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 KENIA, declared raw material composition: 67% Olefin, 33% Polyester
- 3. Date of receiving material for testing: 2018-04-19
- 4. Date of test performance: 2018-04-23÷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**

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Test performed by: Danuta Ławniczak

- 1. Test results refer only to the tested material.
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- 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: 2018-04-27 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:

Function:

Signature

Zastępcz Kierownika Laboratorium Badań Surowców i Wyrobów Wokienniczych Instytut Wykiennictwa

mgr inż. Jerzy Andrysiak



Laboratium Badań Surowców
1 Wyrobów Wókienniczych
92-103 Łódź, ul. Brzezińska Eur

## TEST CERTIFICATE NO. BM 12.6.2.2 / 2018 / B / A

Parameter		Value	Remarks	
	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A the conditioned sample,	
Abrasion resistance, number of rubs	1 specimen	25 000	the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa,	
	2 specimen	30 000	magnification factor in the magnifying device: 8,	
	3 specimen	25 000	in holders used foam.  Criterion of destruction of the testing specimens in accordance with that standard:	
	4 specimen	25 000	three threads completely broken	
	Total abrasion resistance (the lowest individual result)	25 000		

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	
The end of Test Certificate	

Person authorizing the Test Certificate

Zastępca Kierownika Laboratorium Badziń Surowców i Wyrobów Włókienniczych Instytut Włókiennictwa

mgr Inz. Jerzy Andrysiak







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

### TEST CERTIFICATE NO. BM 12.6.2.3 / 2018 / 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 KENIA, declared raw material composition: 67% Olefin, 33% Polyester
- 3. Date of receiving material for testing: 2018-04-19
- 4. Date of test performance: 2018-04-25
- 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: Elżbieta Olczak

- 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: 2018-04-27 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 Bak

Person authorizing the Test Certificate:

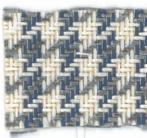
Name and surname:

Function:

Signature

Zastępza Kierownika Laboratorizm Badań Serowców i Wyrobów Wókienniczych Instytut Wókiennictwa

mgr inz. Jerzy Andrysiak



Laboratorium Badan Surowców, 1200 pów Włokienniczych 92-103 Łódź, ul. Brzezińska 5/14

### TEST CERTIFICATE NO. BM 12.6.2.3 / 2018 / B / A

Par	rameter	Value	Remarks
Propensity to surface fuzzing	the number of rubs	5	PN-EN ISO 12945-2:2002 (modified Martindale method)
and pilling, grade	1 000	5	the conditioned sample, the abradant: the standard woolen fabric;
graue	2 000	5 No change	mass of weight: $415 \pm 2$ g;
	5 000	5	

Evaluation according to PN-EN 14465:2005+A1:2007: A category: grade  $\geq 4-5$ ; 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 Wyrobów Wykienniczych Instytut Wowennictwa

mgr inż. Jezy Andrysiak