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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 2.1.1/2015/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 HAMILTON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 07.01.2015
- 4. Date of test performance: 21.01.2015
- 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 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: 22.01.2015

Number of Certificate copies: 3

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków - 2 copies
- 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

Signature:

Laborator um Bazan Surowcow i Wyrobo w Włokienniczych Institit West Estnictwa

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TEST CERTIFICATE NO. BM 2.1.1 / 2015 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm:		PN-EN ISO 13936-2:2005
Warp		Test conditions:
The mean value of seam slippage resistance for	4	tensile tester: Hounsfield H50 KM,
lengthwise direction, mm		testing force: 180 N,
- individual results, mm	4; 4; 3,5; 3,5; 4,5	100% PES sewing threads (74 ± 5) tex.
W/_6	(2)	the number of sewing needle: 110
Weft		the number of stitch: 32±2/100 mm rate of extension: 50 mm/min.
The mean value of seam slippage resistance for crosswise direction, mm	3	number of testing specimens: 5
- individual results, mm	3; 3; 3,5; 3; 4	
Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: A category: \leq 4 mm; B category		

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	Person authorizing the Test Certificat
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	mgr inz. Halina Królika



ENSTYTUT WEOKIENNECTWA

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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 2.1.2/2015/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 HAMILTON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 07.01.2015
- 4. Date of test performance: 16.01.2015
- 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: Elzbieta 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: 22.01.2015 Number of Certificate copies: 3 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków - 2 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:

aboratorem Padań Surowców i Wyrobiw Wikienniczych InstylutyWolliennictwa

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TEST CERTIFICATE NO. BM 2.1,2 / 2015 / B / A

Pa	rameter	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 Test conditions:
Abrasion resistance,	1 specimen	30 000	the abradant: the standard woollen fabric,
number of rubs	2 specimen	30 000	the nominal pressure used in the test: 12 kPa
	3 specimen	30 000	magnification factor in the magnifying
	4 specimen	30 000	device: 8, in holders used foam.
	Total abrasion resistance (the lowest individual result)	30 000	Criterion of destruction of the testing specimens in accordance with that standard: fiber cover completely wiped.

evaluation:
according to PN-EN 14465:2005 + A1:2007: A category: number of rubs ≥ 35 000 rubs,
B category: number of rubs: 12 000 ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000

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	Person authorizing the Test Certificate
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	mgr inž, Halina Królikowska
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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 2.1.3 / 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 HAMILTON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 07.01.2015
- 4. Date of test performance: 16.01.2015
- 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.
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Certificate date: 22.01.2015

Number of Certificate copies: 3

Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków - 2 copies
- 2) Laboratory of Testing Textile Raw Materials and Fabrics I copy

Certificate prepared by:

Patrycja Bak

Person authorizing the Test Certificate:

Name and surname: Halina Królikowska Function: Head of the Laboratory

Signature:

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TEST CERTIFICATE NO. BM 2.1.3 / 2015 / B / A

rameter	Value	Remarks
the number of rubs 500	4	PN-EN ISO 12945-2:2002 (modified Martindale method)
1 000	3 - 4	Test conditions
2 000	3 moderate surface fuzzing and moderate pilling	the abradant;; the standard woolen fabric mass of weight: $415 \pm 2 g$;
14465:2005+A1:2007: A c-4; D category: grade	category: grade ≥4-5;	B category: grade 4;
	the number of rubs 500 1 000 2 000 14465:2005+A1:2007: A	the number of rubs 500 4 1 000 3 - 4 2 000 3 moderate surface fuzzing and moderate pilling 14465:2005+A1:2007: A category: grade > 4 - 5:

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Person authorizing the Test Certificate
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mgr inż. Halina Królikowska



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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 2.1.4/2015/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 HAMILTON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 07.01.2015
- 4. Date of test performance: 09.01.2015
- 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: Ewa Gontarska

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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: 23.01.2015 Number of Certificate copies: 3 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków - 2 copies
- 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

Laboratorium Baden Jujowcóv i Wyrobów Wojne na zych

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mgr inz. Halina Krol kowska

DK-25-1/V issued on 02 January 2015 Laboratory of Testing Textile Raw Materials and Fabrics

Page I of 2

TEST CERTIFICATE NO. BM 2.1.4 / 2015 / G / A

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

The end of Test Certificate ___

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mgr inż. Halina Królikowska