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5/15 Brzezinska Str., 92-103 LODZ, Poland, www.iw.lodz.pl

Laboratory of Testing Textile Raw Materials and Fabrics





AB 164

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163140, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490 e-mail: krolikowska@iw.lodz.pl, bwitkowska@iw.lodz.pl

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

TEST CERTIFICATE NO. BM 87.6.1.4 / 2016 / 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 product CYKLON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2016-08-03
- 4. Date of test performance: 2016-08-12
- 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.
- 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: 2016-08-18 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:

Function:

Signature

www.cbó Woldenniczych mstytul Wolennictwa cor inż. Halina Królikowska

ań Surowców

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Laboratefium Badań Surowców i Wyrobów Włókienniczych 92-193 Łetaż, ul. Brzezińska 6/15

TEST CERTIFICATE NO. BM 87.6.1.4 / 2016 / G / A

Paramet		Value	Remarks
Resistance to surface wetting	1 specimen	2 - 3	PN-EN ISO 4920:2013-02 test were carried out in normal climate
(Spray test), degree	2 specimen	2 - 3	conditions; water temperature: 20°C; Assessment scale:
	3 specimen	2 - 3 wetting of the specimen face at spray points and 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	

Person authorizing the Test Certificate

mgr inż. Halina Królikowska







AB 077

Łódź, 26th of August 2016

Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str. phone no. +48 42 6163130 (120, 128), fax +48 42 6163131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

L - 337/2016

TEST CERTIFICATE no BCH 308/614/2016/A

1. Name and address of the principal:

"TOPTEXTIL" Sp. z o.o.

ul. Wadowicka 30 - 415 Kraków

2. Name and description of tested sample: Sample: furniture upholstery article CYKLON, declared material

composition 100% polyester

3. Date of receiving sample for testing:

04.08.2016

4. Date of performance of testing:

08.08. - 26.08.2016

5. Sampling:

sample in a proper size, in a proper condition for research, supplied by

Confirmed by

CHEMICZNYCH

mgr inż. Jerzy Plestrzeniewicz

the Client

RESULTS OF THE TESTS

Property of investigation	Results 1)	Testing method	Test conditions	categories	-	
in total				A	В	C
Colour fastness to rubbing: - Dry weft warp - Wet	a/ 4-5 a/ 4-5	PN-EN ISO 105- X12:2005	Acclimatization conditions: temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h; Test conditions: ambient temperature: 22,8°C rubbing pick: Ø 16±0,1mm; push: 9±0,2 N;	≥ 4-5	4	3-4
weft warp	a/ 4-5 a/ 4-5		degree of moisturising of rubbing to fabric: 100%	≥ 3-4	3	2-3

¹⁾ Colour fastness according to "Grey scale", indicator "5" means - no change in colour, indicator "1" means - big change in colour a/ staining cotton to rubbing

Remarks:

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 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:

Katarzyna Chylewska, M.Sc. Eng.

X. Clylenska

Number of copies: 4

The test certificate receive:

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

Edition 6 Date 15.06.2016 page 1/1







AB 077

Łódź, 26th of August 2016

Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str. phone no. +48 42 6163130 (120, 128), fax +48 42 6163131 e-mail: ipiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

L - 337/2016

TEST CERTIFICATE no BCH 308/614/2016/A/1

1. Name and address of the principal: "TOPTEXTIL" Sp. z o.o.

ul. Wadowicka 30 – 415 Kraków

2. Name and description of tested sample: Sample: furniture upholstery article CYKLON, declared material

composition 100% polyester

3. Date of receiving sample for testing:

04.08.2016

4. Date of performance of testing:

08.08. - 26.08.2016

5. Sampling:

sample in a proper size, in a proper condition for research, supplied by

the Client

RESULTS OF THE TESTS

Property of investigation	Results 1)	Testing method	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007			
	mvestigation			A	В	C	
Colour fastness to: - artificial light	a/ 4 (yellow) a/ 1-2 (silver)	PN-EN ISO 105- B02:2014-11 Method 2	Device: Xenotest Alpha + <u>Light conditions:</u> - wavelenght: 380-750 nm - filters: 7IR - BST temperature = (47±3)°C - chamber temperature: (45±3)°C - RH = 40% Estimation: Multilight chamber, light D65	≥ 6	≥ 5	≥4	

¹⁾ Colour fastness according to "Blue scale", indicator "8" means – no change in colour, indicator "1" means – big change in colour a/ change of colour of the sample

Remarks:

- 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.
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Test authorized by:

Katarzyna Chylewska, M.Sc. Eng.

X. Chylewska

Number of copies: 4

The test certificate receive:

- Client 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 BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz



Laboratory of Testing





AB 164

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163140, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: krolikowska@iw.lodz.pl, bwitkowska@iw.lodz.pl

Textile Raw Materials and Fabrics

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

TEST CERTIFICATE NO. BM 87.6.1.1 / 2016 / 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 product CYKLON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2016-08-03
- 4. Date of test performance: 2016-08-17
- 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: Danuta Ławniczak

- 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.
- 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: 2016-08-18 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: Laborate

Function:

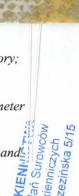
Signature

/ Werownik Laboratdrium Badań Surowców i Wyrobów Włókienniczych Instaty Wokiennictwa

mgr inż. Halina Królikowska

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DK-25-1/V issued on 1th June 2016 Laboratory of Testing Textile Raw Materials and Fabrics Page 1 of 2



TEST CERTIFICATE NO. BM 87.6.1.1 / 2016 / B / A

Parameter		Value	Remarks
A 1.	Carrier and the contract of th		
	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>
Abrasion resistance, number of rubs	1 specimen	30 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa,
	2 specimen	30 000	magnification factor in the magnifying device: 8, in holders used foam.
	3 specimen	30 000	Criterion of destruction of the testing specimens in accordance with that standard:
	4 specimen	30 000	local wiping of the cover on the surface 5 mm ² without damage rows/columns in knitted
	Total abrasion resistance (the lowest individual result)	30 000	fabric. Note: clear wiping printing at 18 000 rubs.

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

 The end of Test Certificate
Person authorizing the Pest Certificate
Halina Królikowska

Laboratory of Testing Textile Raw Materials and Fabrics

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163140, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490 e-mail: krolikowska@iw.lodz.pl, bwitkowska@iw.lodz.pl

TEST CERTIFICATE NO. BM 87.6.1.2 / 2016 / B

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o. ul. Wadowicka 12: 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery product CYKLON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2016-08-03
- 4. Date of test performance: 2016-08-12
- 5. Samples taken by: limited 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.
- 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. 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: 2016-08-18 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: aboratoriu dań Surowców tienniczych Function: ennictwa

Signature:

mgr inż. Halina Królikowska

YTUT WŁÓKIENNICTWA -aboratorium Badań Surowców

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DK-25-2/V issued on 1th June 2016 Laboratory of Testing Textile Raw Materials and Fabrics

TEST CERTIFICATE NO. BM 87.6.1.2 / 2016 / B

Parameter	Value	Remarks
Seam slippage resistance, mm:		PN-EN ISO 13936-2:2005
<u>Columns</u> The mean value of seam slippage resistance for	2	Test conditions: tensile tester: Hounsfield H50 KM,
lengthwise direction, mm - individual results, mm	2; 2; 3; 2,5; 2	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
Rows The mean value of seam slippage resistance for	3	rate of extension: 50 mm/min. number of testing specimens: 5
crosswise direction, mm		number of testing specimens. 3
- individual results, mm	2,5; 3; 2,5; 3; 2,5	2 . 2

The end of Test Certificate	

Person authorizing the Test Certificate
Laborato fun Bagai Surowców
i Wyrotów Wykyenniczych

mgr inż. Halina Królikowska



Laboratory of Testing Textile Raw Materials and Fabrics





AB 164

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163140, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490 e-mail: krolikowska@iw.lodz.pl, bwitkowska@iw.lodz.pl

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

TEST CERTIFICATE NO. BM 87.6.1.3 / 2016 / 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 product CYKLON, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2016-08-03
- 4. Date of test performance: 2016-08-17
- 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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- 5. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented 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.

 Tificate date: 2016-08-18

 mber of Certificate copies: 2

 **t Certificate handed to: **Tificate han

Certificate date: 2016-08-18 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

lań Surowców ókienniczych ciennictwa

Królikowska

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DK-25-1/V issued on 1th June 2016 Laboratory of Testing Textile Raw Materials and Fabrics Page 1 of 2

Badań Suroweś

TEST CERTIFICATE NO. BM 87.6.1.3 / 2016 / B / A

Parameter		Value	Remarks		
Propensity to surface fuzzing	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method)		
and pilling,	1 000	5	Test conditions: the abradant: the standard woolen fabric		
	2 000	5 No change	mass of weight: 415 ± 2 g;		

The end of Test Certificate Person authorizing the Test Certificate

mgr inż. Halina Królikowska



Laboratory of Flammability Testing

90-520 Lodz, 118 Gdanska Str. phone 48 42 2534435 (436), fax 48 42 2534490

e-mail: mszejna@iw.lodz.pl



AB 029

INSTYTUT WŁÓKIENNICTWA

ul. Gdańska 118, 90-520 Łódź tel. 42 25 34 400, fax43 25 34 490

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 268 / 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 30-415 Kraków



Subject of testing:

Upholstery composite:

- upholstery fabric for furniture named CYKLON composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

Testing sample with the correct size, in appropriate state for testing, supplied by the Orderer with its characteristic and without the Sampling Protocol.

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	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:

technician Andrzej Kubacki

Sample received on: Test performed on:

05.08.2016

19.08.2016

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK TECHNICZNY

mgr inz Agnieszka Hulewicz 18.08. 2016

NOTES:

- The Testing results refer only to the tested sample.
- Test Certificate consists of 2 pages.
- Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
- The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h

Testing conditions: temperature 22 °C; humidity 52 %

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 of:

- upholstery material named CYKLON, composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

Criteria		Cigarette			Remarks				
		1	2	3	Kemarks				
Unsafe escalating combustion		NO	NO	-	Maximum cigarette				
	Test assembly consumed	NO	NO	-	smouldering time: 17 minutes 54 seconds				
C	Smoulders to extremities	NO .	NO	-				•	
Smouldering criteria	Smoulders through thickness	NO	NO	-					
CITICITA	Smoulders more than 1 hour	NO	NO	-					
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:				
Flaming					horizontal [r	nm]	ver	tical [m	m]
criteria	Occurrence of flames	NO	NO	-	length width 68 16	depth	length 66	width	depth 10

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

END OF THE TEST CERTIFICATE