

MATERI WEOKENNICIWA

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UNIA DLA PRZEDSIĘBIORCZYCH
PROGRAM KONKURENCYJNOŚĆ

UNIA EUROPEJSKA

Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego



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 2.14.1.4 / 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 OUTDOOR 1, declared raw material composition: 100 % Polyester

3. Date of receiving material for testing: 18.09.2015

4. Date of test performance: 19.10.2015

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: 20.10.2015 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 Bak

Person authorizing the Test Certificate:

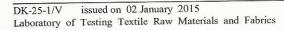
Name and surname: Halina Królikowska

Function: Head of the Laboratory
Signature: Laboratorium Badan Su

Laboratorium Fadań Surowców i Wyrobów Wókienniczych Instytu Wokiennictwa

-verte-

mgr inż. Halina Królikowska







YTUT WY ÓKIENNICTWA ratorium Badań Surowców gobów Włokienniczych 3 dódź, ul. Brzezińska 644

TEST CERTIFICATE NO. BM 2.14.1.1 / 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, number of rubs	1 specimen	60 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kP magnification factor in the magnifying
	2 specimen	60 000	
	3 specimen	60 000	device: 8,
	4 specimen	60 000	in holders used foam. Criterion of <u>destruction of the testing</u> <u>specimens in accordance with that standar</u> at least three threads completely destroyed
	Total abrasion resistance (the lowest individual result)	60 000	

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 Test Certificate

Kierownik

Laboratorium Badań Surowców
i Wyrobów Wiekianniczych
instytut Wokianniczyca

mgr inż. Halina Królikowska

TEST CERTIFICATE NO. BM 2.14.1.2 / 2015 / B / A

Par	ameter	Value	Remarks
Propensity to surface fuzzing	the number of rubs	5	PN-EN ISO 12945-2:2002 (modified Martindale method)
and pilling,	1 000	4 - 5	Test conditions: the abradant: the standard woolen fabric;
	2 000	4 - 5 Slight surface fuzzing	mass of weight: 415 ± 2 g;
Evaluation according C category: grade	ng to_PN-EN 14465:2005 3 – 4; D category: gr	+A1:2007: A category: ade 3	grade $\geq 4-5$; B category: grade 4;

Lucine ad Tilda	The end of Test Certificate	

Person authorizing the TexteCentificate

Laboratorium Badan Suroweów
i Wyrodów Włókienniczych
Instytut Wokiennictwa

mgr inż. Halina Krettkowska

TEST CERTIFICATE NO. BM 2.14.1.3 / 2015 / B / A

Parameter	Value	Remarks
		PN-EN ISO 13936-2:2005
Seam slippage resistance, mm:		Test conditions:
Warp The mean value of seam slippage resistance	4	tensile tester: Hounsfield H50 KM, testing force: 180 N,
for lengthwise direction, mm - individual results, mm	4; 4; 4,5; 4; 4,5	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.
Weft The mean value of seam slippage resistance	3	number of testing specimens: 5
for crosswise direction, mm - individual results, mm	3; 3; 3; 3	

Eval	uation:

according to PN-EN 14465:2005 + A1:2007

requirements level: A category: ≤ 4 mm; B category: ≤ 6 mm; C category: ≤ 8 mm

The end of Test Certificate _

Person authorizing the Lest Certificate

Laborato furn Badan Surowców
i Wyrosów Włókienniczych
Instylu Woylennictwa

mgr inż. Halina Królikowska



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AB 077

Łódź 15th October 2015

Laboratory of Chemical Testing and Instrumental Analysis

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

L - 552/2015

TEST CERTIFICATE No BCH 526/1336/2015/A

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 OUTDOOR 1 - material

composition: 100% Polyester

3. Date of receiving sample for testing:

23.09.2015

4. Date of performance of testing:

05.10. - 15.10.2015

5. Sampling:

by Client personally

RESULTS OF THE TESTS

Property of investigation	Results	Testing method	Test conditions
Colour fastness to: - artificial weathering 1)	a/ 5-6	PN-EN ISO 105-B04:1999 Method 2	Device: Xenotest Alpha + <u>Light conditions:</u> - wavelenght: 300-400nm - filters: 61R+1UV - BST temperature = (47±3)°C - chamber temperature: 40 °C - spray – 1min, drying – 29 min <u>Estimation:</u> Multilight chamber, light D65

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

Remarks:

1. 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.

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.

AN CHEMICZNYCH Z 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

TEST CERTIFICATE NO. BM 2.14.1.4 / 2015 / B / A

Parameter	Value	Remarks
The mean of water absorption, %	36,4	PN-EN 29865:1997 conditioned specimen, the flow rate of water: (100 ± 5) ml/min.,
The mean amount water, which has passed through the specimens, ml	56	water temperature: $(20 \pm 3)^{\circ}$ C, Assessment water repellency, in grades, after 1 min. from the ending of the rain-
The water repellency, grade	specimen wet through over complete surface	shower test; the centrifuge time: 15 s Assessment according to reference photographs: grade 5: Fast runoff of small drops; grade 4: formation of large drops; grade 3: drops adhere to parts of the specimen; grade 2: specimen partly wetted; grade 1: specimen wet through over complete surface:

The end of Test Certificate	
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Person authorizing the Test Certificate

Laboratorium Badan Surowców
i Wyrobów Widwegniczych
Instytu Wolkernich a

mgr inż. Halina Królikowska