IW INSTYTUT WŁÓKIENNICTWA
Textile Research Institute
92-103 ŁÓDŹ, ul. Brzezińska 5/15,
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UNIA DLA PRZEDSIĘBIORCZYCH
PROGRAM KONKURENCYJNOŚĆ
UNIA EUROPEJSKA
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

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PCA Polskie Centrum Akredytacji BADANIA
AB 164

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS

Testing Laboratory accredited by the Polish Centre for Accreditation

BM-904-11.3-G/12

Test Report no. 11.3.1 / 2012 / G / A

1. **Test ordered by**: „TOPTEXTIL" Sp. z o.o., 30-415 Kraków, 12 Wadowicka Str.
2. **Name and description of tested material**: the sample: the upholstery product **TUNIS**, declared raw material: 89% polyester, 11% cotton
3. **Date of receiving material for testing:** 2012-02-20
4. **Date of test performance:** 2012-02-23÷28
5. **Samples taken:** correct sample size taken by the Client and delivered in appropriate state for testing
6. **Tests carried out according to**: methods presenting in testing table



Results of Laboratory Tests

see page 2/2

Test performed by: Ewa Gontarska M.Sc. Eng

1. *Test results refer only to the tested material.*
2. *Neither of the parts of this report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.*
3. *Report 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 result 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.*

INSTYTUT WŁÓKIENNICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezińska 5/15
Siedziba: Laboratorium
90-520 Łódź, ul. Gdańska 118

Report date: 2012-02-29
Number of report copies: 4
Test report handed to:
1) TOPTEXTIL Sp. z o.o. - 2 copies,
2) Laboratory for Testing Textile Raw Materials and Fabrics (location: 5/15 Brzezińska str.) - 1 copy,
3) Laboratory for Testing Textile Raw Materials and Fabrics (location: 118 Gdańska str.) - 1 copy.

Report prepared by:

Zofia Mokwińska M.Sc. Eng

Person authorizing the Test Report:

Surname and name: Beata Witkowska, Ph. D.
Function: Technical Head of Laboratory
Signature:

Kierownik Techniczny
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba: ul. Gdańska 118
dr inż. Beata Witkowska

- Verte -

Test Report no. 11.3.1 / 2011 / G /A

Parameter		Value	Remarks
The mean value of bursting strength, kPa		**450 ± 10**	PN-EN ISO 13938-2:2002 the number of testing samples - 5, testing area - 50 cm^2.
Coefficient of variation, %		2,2	
The mean value of bursting distension, mm		**28 ± 1**	
Coefficient of variation, %		3,6	
Seam slippage resistance, mm:			PN-EN ISO 13936-2:2005 tensile tester Instron 3367, testing force - 180N, 100% PES sewing threads – 79 tex, the number of sewing needle - 110, the number of stitch - 32/100 mm, rate of extension - 50 mm/min.
Warp			
The mean value of seam slippage resistance for lengthwise direction, mm		**2 ± 0**	
- individual results, mm		2; 2; 2; 2; 2	
Weft			
The mean value of seam slippage resistance for crosswise direction, mm		**2 ± 0**	
- individual results, mm		2; 2; 2; 2; 2	
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	5	PN-EN ISO 12947-2:2000 +AC:2006 + PN-EN 14465:2005+A1:2007 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.
	1 specimen	50 000	
	2 specimen	50 000	
	3 specimen	50 000	
	4 specimen	50 000	
	Total abrasion resistance (the lowest individual result)	**50 000**	
Criterion of breakdown: knitted pile fabric: pile spots of 5 mm^2 are fully worn off without any damage to the warp/weft threads			

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", **the testing upholstery product TUNIS** was classified:
- **Level B** in reference to the bursting strength (Level B: ≥ 400 kPa),
- **Level A** in reference to the seam slippage resistance (Level A: ≤ 4 mm),
- **Level A** in reference to the abrasion resistance (Level A: ≥ 45 000 rubs).

The end of the Test Report

Person authorizing the Test Report:

Kierownik Techniczny
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba: ul Gdańska 118

dr inż. Beata Witkowska

Łukasiewicz
Lodz Institute of Technology

Laboratory of Flammability Testing
Lukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Sklodowskiej-Curie Str., phone +48 42 307 09 01
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone +48 42 2534435 (436),
e-mail: krzysztof.kostanek@lit.lukasiewicz.gov.pl

AB 029

TEST CERTIFICATE No 39 / BL - PW / 26

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. Karola Wojtyły 13
34-100 Jaroszowice

Subject of testing*:

Upholstery composite:
- fabric named TUNIS; composition: 100 % Polyester*,
- foam RF 3030K.

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:
Jolanta Rudnik Ph.D.

Test Certificate authorized by
KIEROWNIK
dr inż. Krzysztof Kostanek

Sample received on: 11.02.2026
Test performed on: 24.02.2026
Test Certificate issued on: 25.02.2026

NOTES:
1. The Testing results refer only to the tested sample.
2. Test Certificate consists of 2 pages.
3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.
5. *Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
Testing conditions: temperature 21,6 °C; humidity 30 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the PN-EN 1021-1:2014-12 standard.

Upholstery composite characteristic:

Upholstery composite:
- fabric named TUNIS; composition: 100 % Polyester*,
- foam RF 3030K.

Test method according to PN-EN 1021-1:2014-12

Criteria		Cigarette			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 20 minutes 24 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	-						
	Smoulders through thickness	NO	NO	-						
	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery composite destruction:					
	In final examination, presence of active smouldering	NO	NO	-						
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mm]			vertical [mm]		
					length	width	depth	length	width	depth
					70	12	4	72	11	5

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

END OF THE TEST CERTIFICATE

The Łukasiewicz Research Network
Textile Research Institute

Laboratory of Testing
Textile Raw Materials and Fabrics

The Łukasiewicz Research Network – Textile Research Institute,
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

TEST CERTIFICATE NO. BM 455.11 / 2019 / B

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 product TUNIS,** declared raw material composition: 100% Polyester
3. **Date of receiving material for testing:** 2019-07-08
4. **Date of test performance:** 2019-08-12÷13
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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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: 2019-08-19
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: Zastępca Kierownika Laboratorium Badań Surowców i Wyrobów Włókienniczych
Signature:

mgr inż. Jerzy Andrysiak

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PCA Polskie Centrum Akredytacji BADANIA AB 1401

RAPORT Z BADAŃ / TEST REPORT NR/No 228 / OW / BE / 13

Zleceniodawca: / **Customer:** "TOPTEXTIL" sp. z o.o.
ul. Wadowickwa 12
30-415 Kraków

Metoda badań: / **Testing method:** PN-EN ISO 105-X12:2005 Tekstylia. Badania odporności wybarwień
Część X12: Odporność wybarwień na tarcie

Przedmiot badań: / **Subject of test:** próbka materiału obiciowego CASABLANCA - 100% POLIESTER
the sample of upholstery fabric CASABLANCA - 100% POLYESTER

próbka pobrana i dostarczona przez zleceniodawcę/ Sampled and delivered by customer

Wyniki badań:
Test results:

Odporność wybarwień na tarcie / Colour fastness to rubbing		Ocena (stopień)/Determination [Grading]	
		kierunek wzdłużny/ longways direction	kierunek poprzeczny /crosswise direction
	suche/dry	4	4
	mokre/wet	3-4	3-4
Warunki aklimatyzacji/ Standard atmospheres for conditioning		T-20 ± 2 °C, RH-65 ± 2%, t-5 h	
Warunki klimatyczne badania/Standard atmospheres for testing		warunki otoczenia/conditions of envelopment	
Trzpień trący/Rubbing finger		ϕ = 16 ± 0,1 mm	
Nacisk trzpienia trącego/Downward force of rubbing finger		9 ± 0,2 N	
Stopień nawilżenia tkaniny trącej/Percentage of soak		100%	

Wyniki odnoszą się do określonych w metodzie warunków badania.
The test results refer to testing conditions of the method.

Badanie wykonał/a: Mariola Budziarek

Data otrzymania próbki: / **Sample delivered at:** 2013-04-23

Data wykonania badania: / **Test finished at:** 2013-04-26

Autoryzował: / **authorized:**

p.o. Kierownika Laboratorium Badań Ekologii Tekstyliów i Środowiska Pracy Instytutu Włókiennictwa
mgr inż. Rafał Milola
26.04.2013

UWAGI/ Notes:

1. Wyniki badań odnoszą się jedynie do badanej próbki/ The test results only refer to the sample material provided
2. Raport może być powielany tylko w całości/Reports may be reproduced on full length only
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