

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

BM-904-36.1-G/13

Test Report no. 36.1.2 / 2013 / 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
CASABLANCA, declared raw material: 100 % polyester
3. **Date of receiving material for testing:** 2013-01-24
4. **Date of test performance:** 2013-01-30÷2013-02-05
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: Izabela Jasińska, Ph. D.

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.*

Report date: 2013-02-08

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:

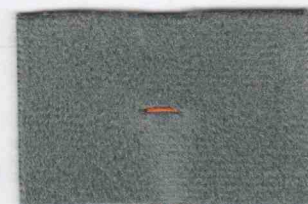
Surname and name: Beata Witkowska, Ph. D.

Function: Technical Head of Laboratory

Signature:

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

dr inż. Beata Witkowska



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

Test Report no. 36.1.2 / 2013 / G / A

Parameter	Value	Remarks
Seam slippage resistance, mm: <u>Warp</u> The mean value of seam slippage resistance for warp, mm - individual results, mm <u>Weft</u> The mean value of seam slippage resistance for weft, mm - individual results, mm	 1 ± 0 1; 1; 1; 1; 1 4 ± 0 4; 4; 4; 4; 4	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.
The mean value of bursting strength, kPa Coefficient of variation, % The mean value of bursting distension, mm Coefficient of variation, %	 510 ± 13 2,8 19 ± 1 8,6	PN-EN ISO 13938-2:2002 the number of testing samples - 5, testing area - 50 cm ² .
Abrasion resistance, number of rubs color change after 3 000 rubs, grade of grey scale 1 specimen 2 specimen 3 specimen 4 specimen Total abrasion resistance (the lowest individual result)	 4 45 000 45 000 45 000 45 000 45 000	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.
Criterion of breakdown: knitted pile fabric – pile spots of 5 mm ² are fully worn of without any damage to the courses/wale threads.		

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", the upholstery product CASABLANCA was classified as:

- **Level A** in reference to the seam slippage resistance (Level A: ≤ 4 mm),
- **Level B** in reference to the bursting strength (Level B: ≥ 400 kPa),

Note: the pressure to 800kPa no significant difference between the results of bursting strength received from the hydraulic devices PN-EN ISO 13938-1:2002 and pneumatic devices PN-EN ISO 13938-2:2002,

- **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

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 Report no. 19.14.2 / 2014 / 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 fabric CASABLANCA (2304)**, declared raw materials: 100% Polyester
3. **Date of receiving material for testing:** 2014-12-08
4. **Date of test performance:** 2014-12-12
5. **Samples taken:** correct sample size delivered 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: Iwona Rybak

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 $k=2$.*

Report date: 2014-12-17

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

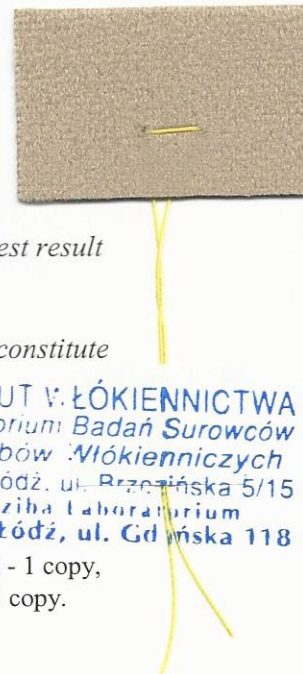
Person authorizing the Test Report:

Surname and name: Beata Witkowska, Ph. D.

Function: Technical Head of Laboratory

Signature:

Laboratorium Badań Surowców
i Wyrobów Włókienniczych
siedziba ul. Gdańska 118
dr Inż. Beata Witkowska

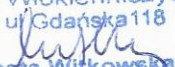


Test Report no. 19.14.2 / 2014 / G / A

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

Person authorizing the Test Report:

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

 dr Inż. Beata Witkowska

DETAILED TESTING RESULTS

Climate conditions: temperature $(23 \pm 2) ^\circ\text{C}$; humidity $(50 \pm 5) \%$
 Testing conditions: temperature $20 ^\circ\text{C}$; humidity 35%

Upholstery composite characteristic:

Upholstery composition:

- upholstery fabric named CASABLANCA, exposed to wetting in water and drying procedure, composition: 100% polyester,
- CM-3040 polyurethane foam, flame-retardant

Criteria		Cigarette		Remarks					
		1	2						
Smouldering criteria	Unsafe escalating combustion	NO	NO	Maximum cigarette smouldering time: 19 minutes 38 seconds					
	Test assembly consumed	NO	NO						
	Smoulders to extremities	NO	NO						
	Smoulders through thickness	NO	NO						
	Smoulders more than 1 hour	NO	NO						
	In final examination, presence of active smouldering	NO	NO	Maximum upholstery composite destruction:					
Flaming criteria	Occurrence of flames	NO	NO						
				length	width	depth	length	width	depth
				70	17	11	67	17	9

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



END OF THE REPORT

LABORATORY OF FLAMMABILITY TESTING
90-520 Łódź, ul. Gdańska 118, tel.: +48(0) 42 2534435, +48(0)42 2534436, fax.+48(0)42 2534490

REPORT ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 55 / BP / 14

Test method:

PN-EN 1021-1:2007 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 composition:
- upholstery fabric named **CASABLANCA**,
composition: 100% polyester
- CM-3040 polyurethane foam, flame-retardant
Testing sample of the fabric and its characteristic supplied by the Orderer.

INSTYTUT WŁÓKIENICTWA
Oddział ul. Gdańska 118
90-520 Łódź, tel. 42 2534400, fax 42 2534490
NIP 724-000-06-64 REGON 000050239

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2007	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:

Andrzej Kubacki
Andrzej Kubacki

Report authorized by:

Laboratorium Badań Palności Wyrobów
KIEROWNIK

mgr inż. Małgorzata Szejna
01.07.2014

Sample received on: 11.03.2014

Test performed on: 26.03.2014

NOTES:

1. The Testing results refer only to the tested sample.
2. The report consists of 2 pages.
3. The report 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 report is responsible for the conformity between the product and sample submitted for testing.

The Testing Laboratory, accredited by the Polish Centre for Accreditation (PCA), has Certificate AB 029 within the scope of tests concerning: the flame retardance, high temperature resistance, liquid chemicals resistance and characteristics of smoke formation in combustion processes