

Laboratorium Badań Surowców i Wyrobów Włókienniczych

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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.*

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.	
<u>Warp</u>			
The mean value of seam slippage resistance for lengthwise direction, mm	2 ± 0		
- individual results, mm	2; 2; 2; 2; 2		
<u>Weft</u>			
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 abrasant – 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: $\geq 45 000$ rubs).

The end of the Test Report

Person authorizing the Test Report:

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i Włókienniczych
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dr inż. Beata Witkowska