



## Laboratorium Badań Surowców i Wytwarzania Włóknienniczych

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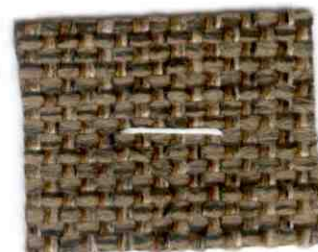


AB 164

BM-904-55-G/10

### Test Report no. 55.2 / 2010 / 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 sample - the upholstery fabric  
**ANDRE coordinate** - raw material: 81% Polypropylene, 19% Polyester
3. **Date of receiving material for testing:** 2010-02-03
4. **Date of test performance:** 2010-02-15÷18
5. **Samples taken by:** the client
6. **Tests carried out according to:** methods presenting in testing table



### Results of Laboratory Tests

see page 2/3

**Test performed by:** Ewa Gontarska M.Sc. Eng, 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).*

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

**Report date:** 2010-02-22

**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 Wytwarzania Włóknienniczych  
siedziba ul. Gdańska 118  
dr Inż. Beata Witkowska

- Verte -

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Parameter	Value	Remarks
The mean of maximum force, N: - warp - weft The mean of elongation at maximum force, %: - warp - weft	<b>1 600 ± 0</b> <b>1 400 ± 0</b> <b>30,0 ± 1,0</b> <b>33,0 ± 0,5</b>	PN-EN ISO 13934-1:2002 tensile tester Zwick 1120, pre-tension - 5 N, number of testing specimens for each direction - 5, rate of extension - 100 mm/min, distance between clamps - 200 mm.
Seam slippage resistance, mm: <u>Warp</u> <b>The mean value of seam slippage resistance for warp, mm</b> - individual results, mm <u>Weft</u> <b>The mean value of seam slippage resistance for weft, mm</b> - individual results, mm	<b>5 ± 0</b> 5; 5; 5; 5; 5 <b>6 ± 0</b> 6; 6; 6; 6; 6	PN-EN ISO 13936-2:2005 tensile tester Zwick 1120, testing force - 180N, 100% PES sewing threads - tex 79, the number of sewing needle - 110, the number of stitch - 32/100 mm.
Abrasion resistance, color change after 3 000 rubs, grade number of rubs	5	PN-EN ISO 12947-2:2000 +AC:2006 +
1 specimen	30 000	PN-EN 14465:2005+A1:2007
2 specimen	30 000	the abradant – the standard woollen fabric,
3 specimen	30 000	the nominal pressure used in the test - 12 kPa,
4 specimen	30 000	magnification factor in the magnifying device - 8, in holders used foam.
<b>Total abrasion resistance (the lowest individual result)</b>	<b>30 000</b>	
<b>Criterion of breakdown:</b> flat woven fabric – three threads are completely broken		

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

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**Opinions and interpretations** (see reference <sup>1)</sup>)

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", **the testing upholstery fabric ANDRE coordinate** - raw material: 81% Polypropylene, 19% Polyester, was classified:

- **Level A** in reference to the tensile strength (Level A:  $\geq 600$  N),
- **Level B** in reference to the seam slippage resistance (Level C:  $\leq 6$  mm).
- **Level B** in reference to the abrasion resistance (Level B:  $12\ 000 \div 30\ 000$  rubs),

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<sup>1)</sup> Opinions and interpretations are not included in accreditation range.