

**Letter of Commission**

No.: -  
Date: 12 March 2015  
Date of arrival: 12 March 2015

**Your Executive:** Mr. Szilágyi

**Test Report**

No.: **01-01/65-2015(E)**  
Date: 31 March 2015

**Our Executive:** Mrs. Gábrriel

**TEST REPORT**

**Customer:** TEXTURA Kereskedelmi Kft.  
**Address:** H-1147 Budapest, Ilosvai S. P. u. 10-12.

**Tested sample:** Woven fabric for working clothing (white)  
Designation: KOPI  
Dura Breeze

**Annexes:** Annex 1: Test results  
Annex 2: Sample for identification

**Date of arrival of sample:** 16 March 2015  
**Date of testing:** 16 March 2015 – 30 March 2015

**Tests performed:**

1. Raw material composition [MSZ 13560-2:1989 and Hungarian Order 25/2005 (IV. 29.) GKM Annex 5, 6 (eqv. EU directives)].
2. Mass per unit area [MSZ EN 12127:1999].
3. Number of threads per unit length [MSZ EN 1049-2:1999].  
Method: A. Measuring distance: 5 cm.
4. Weave of fabric.
5. Dimensional stability in washing and drying [MSZ EN ISO 5077:2008].  
Number of test specimens: 2. Number of washing and drying cycles: 5.  
Detergent: ECE 98. Ballast: polyester fabric.  
Washing machine: Wascator FOM 71 CLS (Type A2).  
Washing, drying: MSZ EN ISO 6330:2001+ MSZ EN ISO 6330:2000/A1:2009.  
Washing: Procedure 2A (60°C). Drying: Procedure E (tumble dry, low temp.).
6. Tensile test [MSZ EN ISO 13934-1:2000].  
Gauge length: 200 mm. Rate of extension: 100 mm/min. Pretension: 2 N.  
Type of device used: INSTRON 3369.  
Number of test specimens: 5 (warp direction) + 5 (weft direction).

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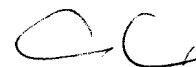


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7. Tear resistance [MSZ EN ISO 13937-2:2000].  
Method of calculation: by electronic device.  
Type of device used: INSTRON 3369.  
Number of test specimens: 5 (warp direction) + 5 (weft direction).
8. Seam slippage [MSZ EN ISO 13936-2:2004].  
Tensile load: 60 N. Type of device used: INSTRON 3369.  
Number of test specimens: 5 (warp direction) + 5 (weft direction).
9. Abrasion resistance [MSZ 3496:2011, method A1].  
Abrasive material: abrasive paper (P600). Load: 4,45 N.  
Type of device used: Schiefer abrasion tester (Frazier Ltd.).
10. Abrasion resistance [MSZ 3496:2011, method A2].  
Abrasive material: woven fabric under test. Load: 17,8 N.  
Type of device used: Schiefer abrasion tester (Frazier Ltd.).
11. Abrasion resistance [MSZ EN ISO 12947-2:2000].  
Pressure: 12 kPa. Type of device used: Martindale 403 (James H. Heal).  
Abradant: standard wool fabric.  
Breakdown: when two threads are completely broken.
12. Fabric propensity to surface fuzzing and to pilling [MSZ EN ISO 12945-2:2001].  
Abrasive material: woven fabric under test. Load: 415 g.  
Number of test specimens: 3. Number of observers: 3.  
Type of device used: Martindale 403 (James H. Heal).

- Notes:
- The test result relate only to the tested sample.
  - This Test Report (include Annexes) contains 4 pages, which can only be copied in full unless the written permission of the testing laboratory is obtained.
  - The testing laboratory is accredited by NAT. Accreditation number: NAT-1-1366/2012.

**László Szalay**

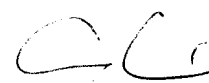
Head of Department

Mechanical Testing and Standardization

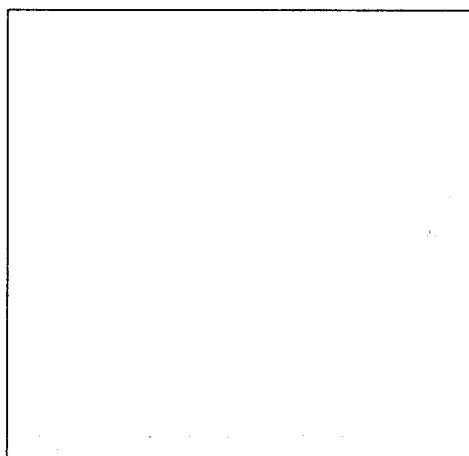
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**Annex 1**

## TEST RESULTS

Tested parameters	Test results
Raw material composition	64,9% polyester 35,1% cotton
Mass per unit area (g/m <sup>2</sup> )	155,3
Number of threads per unit length (per 10cm) warp / weft	531 / 271
Weave	Twill, 2/1 "S"
Dimensional stability in washing and drying, 60°C (%) 1x washed                 warp / weft 5x washed                 warp / weft	-3,0 / -0,8 -3,9 / -1,1
Breaking strength (N)         warp / weft direction Elongation (%)                    warp / weft direction	1308 / 634 21,6 / 17,8
Tear resistance (N) -warp direction (across weft) -weft direction (across warp)	22,1 24,5
Seam slippage (mm)   warp slippage / weft slippage	1,7 / 1,6
Abrasion resistance (MSZ 3496:2011, A1) (revolutions)	1.660
Abrasion resistance (MSZ 3496:2011, A2) (revolutions)	>22.500
Abrasion resistance (MSZ EN ISO 12947-2) (rubs)	45.000
Propensity to surface fuzzing and to pilling (grade) Rubs: 125 / 500 / 1000 / 2000 / 5000 / 7000	4-5 / 4-5 / 4-5 / 4 / 3-4 / 3



**László Szalay**  
 Head of Department  
 Mechanical Testing and Standardization

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**01-01/65-2015(E)****Annex 2****Sample for identification**

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