

Letter of Commission

No.: -

Date: 8 April 2014

Date of arrival: 8 April 2014

Your Executive:

Dorottya Jakab

Test ReportNo.: **01-01/117-2014(E)**

Date: 24 April 2014

Our Executive:

Mrs. Gábriel

TEST REPORT**Customer:** TEXTURA Kereskedelmi Kft.**Address:** H-1147 Budapest, Ilosvai S. P. u. 10-12.**Tested sample:** Woven fabric for working clothing (blue)

Designation: DRIC

Supra Light

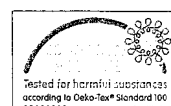
Annexes: Annex 1: Test results

Annex 2: Sample for identification

Date of arrival of sample: 8 April 2014**Date of testing:** 8 April 2014 – 24 April 2014**Tests performed:**

1. Raw material composition [MSZ 13560-2:2011].
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: 5 N.
Type of device used: INSTRON 3369.
Number of test specimens: 5 (warp direction) + 5 (weft direction).

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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. Colour fastness to artificial light [MSZ EN ISO 105-B02:2001+ MSZ EN ISO 105-B02:1999/A1:2002].
Type of device used: Xenotest 150 S. Method used: 2.
Reference materials: Blue Wool References developed in Europe (1 to 8).
Exposure conditions: normal conditions (temperate zone).
13. Colour fastness to washing [MSZ EN 20105-C03:1995, 60°C].
14. Colour fastness to perspiration [MSZ EN ISO 105-E04:2009].
15. Colour fastness to dry cleaning [MSZ EN ISO 105-D01:2010].
16. Colour fastness to rubbing [MSZ EN ISO 105-X12:2003].

- 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	100% cotton
Mass per unit area (g/m ²)	212,9
Number of threads per unit length (per 10cm) warp / weft	530 / 202
Weave	Twill, 3/1 "S"
Dimensional stability in washing and drying, 60°C (%) 1x washed warp / weft 5x washed warp / weft	-1,1 / -0,3 -2,4 / -0,5
Breaking strength (N) warp / weft direction Elongation (%) warp / weft direction	1.153 / 404 9,9 / 12,4
Tear resistance (N) -warp direction (across weft) -weft direction (across warp)	20,1 23,9
Seam slippage (mm) warp slippage / weft slippage	2,0 / 1,8
Abrasion resistance (MSZ 3496:2011, A1) (revolutions)	1.416
Abrasion resistance (MSZ 3496:2011, A2) (revolutions)	>22.500
Abrasion resistance (MSZ EN ISO 12947-2) (rubs)	34.000
Colour fastness (degree) - to light (ISO 105-B02) - to washing - colour change - staining (cotton/wool) - to perspiration - acid - colour change - staining (cotton/wool) - alkaline - colour change - staining (cotton/wool) - to dry cleaning - colour change - staining (cotton/wool) - to rubbing (dry/wet)	6 4-5 4-5 / 3-4 5 4-5 / 4 5 4-5 / 4 5 5 / 5 4-5 / 3-4


László Szalay

Head of Department

Mechanical Testing and Standardization

Test Report No.:
01-01/117-2014(E)**Annex 2****Sample for identification**

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Annex 2
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László Szalay
Head of Department
Mechanical Testing and Standardization