

Textilní zkušební ústav

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(Textile Testing Institute)

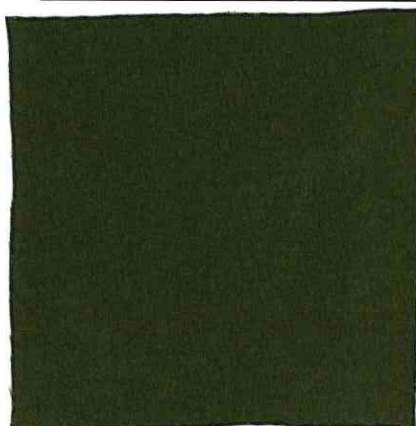
ACCREDITED TESTING LABORATORY No. 1001

TEST REPORT

FZZ 12/0434-01/CHZ 0341-01

CUSTOMER: AB „Audimas”
Raudondvario pl. 80
LT-47182 Kaunas
Lithuania

SAMPLE: Sport wear - main fabric (woven)
(according to the customer order) Colour: color shade as attached sample



SUBJECT OF ASSESSMENT: Tests according to request of customer

**CONDITIONS OF
APPLICATION OF THE TEST
REPORT:**

Test Report contains results of the tests related to the submitted sample only. Consumption of sample was performed by the contracting authority. The Report may not be reproduced in any way other than as a complete set. Reproduction of certain parts of the Report is subject to approval of the test laboratory, which has issued it. All information about subcontracted tests results or unaccredited test methods is presented in text part of the test report. This Report is a literal translation of the Czech version.

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PROCEDURE OF ASSESSMENT***Binary fibre mixtures – Quantitative chemical analysis***

was determined according to LST ISO 1833. Before assessment was all the fibres in the sample examined microscopically.

- Test method: No. 10 with Sulphuric acid 75% - content of cellulose fibres

Results: Content of analysed fibres as a percentage with agreed percentage addition

Uncertainty of measurement: 0, 5%

Mass per unit area

was determined according to LST EN 12127.

- Conditioning according: relative humidity (65±4) %, temperature (20±2)°C
- Standard atmosphere for testing: relative humidity 66 %, temperature 20°C
- Period of drying: 4 hrs
- Dimension: 10 x 10 cm, Number of samples: 5
- Drying temperature: (105±3)°C

Results: Mass per unit area expressed as g.m⁻²

Permeability of fabric to air

was determined according to LST EN 9237.

- Conditioning according: relative humidity (65±4) %, temperature (20±2)°C
- Number of specimens tested: 10
- Surface of the sample: 20 cm²
- Gradient pressure: 100 Pa

Results: Permeability of fabric to air expressed as mm.s⁻¹

Colour fastness to washing

was determined according to LST EN ISO 105-C06

- Test conditions: test A1S (temperature - 30°C - deviation of the standard)
- Number of steel balls: 10
- Detergent: ECE
- Additional souring: not used
- Adjacent fabrics: Polyester/cotton

Results: Change in colour to LST EN 20105-A02

Staining of the individual adjacent fabrics to LST EN 20105-A03

Colour fastness to rubbing

was determined according to LST EN ISO 105-X12

- Rubbing conditions: dry
- Rubbing conditions: wet (wetting of rubbing cloth: 100%)
- Rubbing load: for others textile [diameter (16±0,1) mm; press down force (9±0,2) N]
- Climatic conditions during testing: temperature (20±2)°C, relative humidity (65±2) %
- Time of air-conditioning of samples: 4 hour

Result: Numerical value of staining of the adjacent fabric for warp / weft direction to LST EN 20105-A03





Textilní zkušební ústav

The change of dimensions after wet treatment

was evaluated according to LST EN ISO 5077. Washing was carried out according to LST EN ISO 6330, in conditions recommended by the producer on attendance symbols.

- Conditioning according: relative humidity (65±4) %, temperature (20±2)°C
- Washing machine: FOM-71MP
- produced by Electrolux-Wascator
- Washing temperature: (30±3)°C, washing procedure: 8A
- Detergent: standard ECE, Detergent concentration: 3g/l
- Number of washing: 1x
- Total mass of the specimens and loading fabric: 2 kg
- Drying: procedure C – horizontal position, Temperature of ironing surface: 150°C

Results: change of dimensions expressed in %

Tensile strength and elongation (Strip method)

was determined according to LST EN ISO 13934-1

- Conditioning according: relative humidity (65±4) %, temperature (20±2)°C
- Standard atmosphere for testing: relative humidity 64%, temperature 20°C
- Tensile strength tester: ZWICK 1454 - CRE
- Load range: 0 - 5 000 N
- Rate of travel of clamping jaw: 100 mm.min.⁻¹
- Nominal gauge length: 200 mm
- Pre-tension: 5 N
- Number of specimens tested : 5 warp, 5 weft

Results: Tensile strength expressed as N

Abrasion resistance of fabric

was determined according to LST EN ISO 12947-2

- Conditioning according: relative humidity (65±4) %, temperature (20±2)°C
- Standard atmosphere for testing: relative humidity 64 %, temperature 20°C
- Abrasion tester: MARTINDALE SDL, Type M 235
- Load used for abrasion: (595±7) g
- Pressure: 9kPa

Results: average number of revolutions, until sample is damaged





Textilní zkušební ústav

TEST RESULTS:

Sport wear - main fabric (woven)			
Colour: color shade as attached sample			
Characteristics	Test method	Measuring unit	Values found
Fibre composition	LST ISO 1833	%	Polyester 86 Elastane 14
Mass per unit area	LST EN 12127	g . m ⁻²	137
Permeability . coefficient of variation	LST EN ISO 9237	mm.s ⁻¹ %	50,1 2,9
Change of dimensions when wet treated (30°C)	LST EN ISO 6330 LST EN ISO 5077	%	warp/weft -0,5 / -0,5
Colour fastness to washing . test A1S (30°C)	LST EN ISO 105-C06	grade grey scale	change in colour/ staining of the adjacent fabric 5/4-5/4-5
Colour fastness to rubbing . dry . wet	LST EN ISO 105-X12	grade grey scale	staining of the adjacent fabric - warp/weft 4-5/4-5 4-5/4-5
Tensile strength . coefficient of variation	LST EN ISO 13934-1	N %	warp / weft 755,6 / 687,5 3,8 / 1,9
Abrasion resistance	LST EN ISO 12947-2	number of revolutions	105 000

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