

CONFIDENCIALU

KOPIJA TKRA

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# TEST REPORT

**CUSTOMER:**

**SAMPLE:**  
(according to the customer order)

Fibre composition: 100 % polyester  
Mass per unit area:  $300 \pm 30 \text{ g.m}^{-2}$   
Colour: grey navy

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

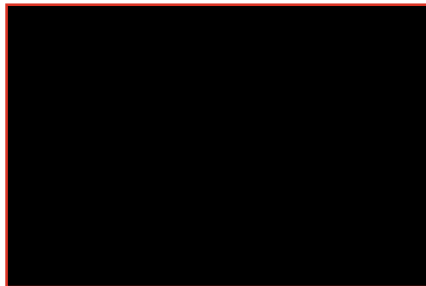
The laboratory is not responsible for information supplied by the customer that may affect the validity of test results.

Test Report contains results of the tests related to the submitted sample only. Sampling has been done by the customer. 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. Unless otherwise stated, all tests were performed at the address, listed in the header.

**PREPARED BY:**  
**CHECKED BY:**  
**NUMBER OF PAGES:**

**DATE OF  
ACCEPTANCE:**





**Determination of textile fibres composition in mixtures by gravimetry**

was performed according to the Regulation No. 1007/2011 of the European Parliament and of the Council. Before the analysis all fibres in the sample were examined and identified microscopically and/or using ATR-FTIR spectrometry.

- test method: No. 14 with sulphuric acid (conc.) - content of polyester fibres

**Result:** Content of analysed fibres as a percentage corrected using agreed allowances (annex IX)

Uncertainty of measurement 0.5 %

[Redacted]	
Results (%)	
polyester	

**Determination of mass indicators - mass per unit area using [Redacted] samples**

was performed according to ČSN EN 12127

- conditions of testing: [Redacted] temperature (20±2) °C; RH (65±4) %
- treatment/relaxation procedure before testing: [Redacted] applied
- specimen number: 5
- specimen dimensions: 10 x 10 cm

[Redacted]	
Results	
Mean mass per unit area (g.m <sup>-2</sup> )	

**Dimensional change after wet treatment**

was evaluated according to ČSN

for evaluation were prepared according

to ČSN EN ISO 3759:2012 washing was carried out according

- conditioning: ČSN ISO 139:2005 (20±2) °C
- washing machine: [Redacted] (FOM- [Redacted] or)
- specimens tested: [Redacted]
- procedure: 4N ( ± [Redacted])
- detergent: standard FCE
- ballast used: type III ČSN
- total ballast load: 2
- number of washing cycles: [Redacted]
- drying procedure: procedure F [Redacted]
- measuring positions number: three pairs of marks [Redacted]
- specimen type: flat textile

The combined measurement uncertainty is approximately [Redacted] %

[Redacted]	
Results	
warp / weft direction	
Dimensional change (%)	



AZ  
pa



**Determination of the permeability of fabrics to air**

was performed according to Č

- testing and conditioning temperature (20±2) °C
- direction of the air
- test surface area used 1<sup>2</sup>
- specimens tested: 10
- pressure drop used: 1

Results	
Mean air permeability R (mm.s <sup>-1</sup> )	

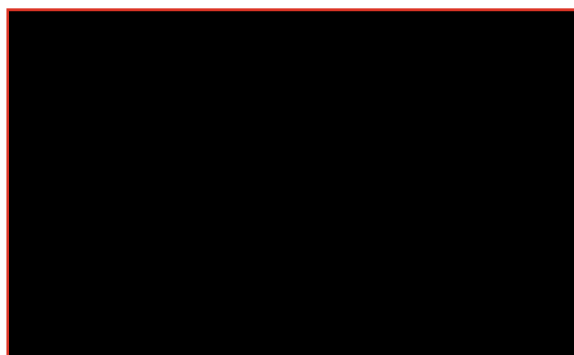
**Testing the resistance to pilling and matting of textile fabrics. Modified Martindale method and assessment of pilling, fuzzing and matting by visual analysis**

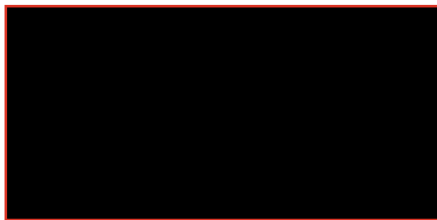
was performed according to ČSN EN ISO 12945-2:2021 – modified Martindale method

- conditioning: temperature (20±2) °C; RH (65±4) %
- specimens' treatment before testing: tested in original state
- loading mass and nominal pressure used: (415±2) g
- number of specimens tested / evaluators: 3 / 3
- abradant: wool

Results: Evaluation of surface change in grades according to ČSN EN ISO 12945-4:2021

Results												
Pilling rubs	Pilling				Fuzzing				Matting			
	sp.1	sp.2	sp.3	average	sp.1	sp.2	sp.3	average	sp.1	sp.2	sp.3	average





**Measurement of thermal resistance under steady state conditions**

was performed according to

- arrangement of test specimens: side facing the human body towards the measurement
- specimens tested
- individual measurement on each specimen: 1x
- atmosphere for testing: air temperature
- hotplate temperature: 25
- measuring unit area: 0,1

[Redacted]	
Results	
Mean value of the thermal resistance $R_{et}$ ( $m^2 \cdot K \cdot W^{-1}$ )	

**Determination of resistance of textile fabrics to surface wetting – spray test**

was performed according to the ČSN 73 0013

- conditioning: temperature  $20 \pm 2$  °C, RH  $(65 \pm 4) \%$
- temperature of water

[Redacted]	
Results	
Individual values (degree)	
. sample 1	
. sample 2	
. sample 3	

**Weave**

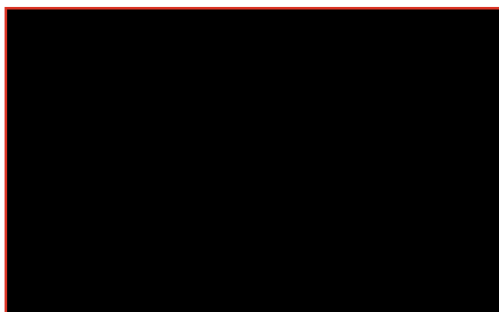
was determined according to ČSN 20 0012:1002 Weaves and weaves techniques Terminology

- standard atmosphere used

Results: verbal description

Test out

[Redacted]	
Results	





**Determination of colour fastness to rubbing**

was tested according to EN ISO 105-B02:2010

- rubbing conditions: dry / wet (wetting of rubbing finger)
- rubbing finger: for textiles [diameter  $(16 \pm 0.1) \text{ mm}$ ]
- climatic conditions during testing: temp.  $(20 \pm 2)^\circ\text{C}$ , RH  $(65 \pm 5)\%$
- time of air-conditioning of samples: 4 hours

**Result:** grade of grey scale (staining) according to EN ISO 105-B02:2010

Results	
staining in warp / weft direction	
dry conditions	
wet conditions	

**Determination of colour fastness to artificial light: Xenon arc fading lamp test**

was tested according to EN ISO 105-B03:2010

- instrument: Xenon arc lamp
- lighting procedure: method 2
- sample's rotation: not used
- exposure conditions: A1 - 1000 h  $(20 \pm 2)^\circ\text{C}$
- approximate radiation energy: 1000 MJ/m<sup>2</sup>

**Result:** grade of blue scale

Results	
colour change	

**Determination of colour fastness to washing**

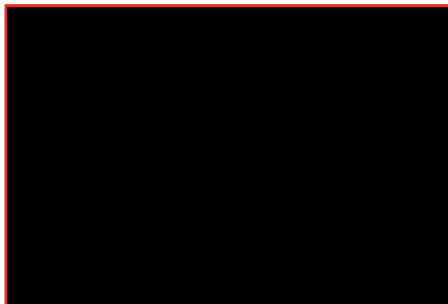
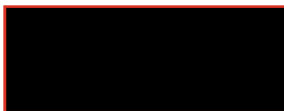
was tested according to EN ISO 105-C06:2010

- pre-treatment: 5 min
- test conditions: A1 - 40 °C
- steel balls number: 10
- washing detergent: 1 g
- souring treatment: not used
- adjacent fabrics: polyamide 6.6

**Result:** Numerical rating of the tested specimen colour change

the tested specimen to the individual adjacent fabrics (EN ISO 105-A05:2020)

Results	
colour change / staining	



#### Determination of colour fastness to perspiration

was tested according to

- adjacent fab
- the option used: samples

Result: Numerical rating of the test:

the tested specimen to the individual  $\alpha_{ij}$ .

Results		colour change / staining
alkaline solution		
acid solution		

Approved by:

End of report