



Łukasiewicz

Lodz Institute of Technology

Laboratory of Textile Metrology and Electrostatics

Łukasiewicz Research Network – Lodz Institute of Technology,

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AB 164

TEST REPORT NO. BL-ME 68 / 2023 / G / A

1. Test ordered by: ^XARCAVIA Aleksandra Gidzińska
42-202 Częstochowa, ul. Żyzna 13M
2. Name and description of tested material^X: the sample: the fabric CORTINA
3. Date of receiving material for testing: 2023-01-31
4. Date of test performance: 2023-02-08+10
5. Samples taken by: ^X correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
6. Tests carried out according to: methods presenting in testing table

Results of Laboratory Tests

see page 2/2

Test performed by: Iwona Rybak

1. Test results refer only to the tested material.
2. Neither of the parts of this Test Report can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
3. Test 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 results table, at the parameter name.
5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor $k = 2$.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/ specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2023-02-13

Number of Test Report 's copies: 3

Test Report handed to:

- 1) ARCAVIA Aleksandra Gidzińska – 2 copy
- 2) Laboratory of Textile Metrology and Electrostatics location: 118 Gdańska str. - 1 copy.

Test Report prepared by:
Stanisława Wróbel

Person authorizing the Test Report:

Sieć Badawcza Łukasiewicz
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Laboratorium Metrologii
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LABORATORIUM M. TROLOGII WŁÓKIENNICZEJ
I ELEKTROSTATYKI
LIDER OBSZARU/KIEROWNIK

dr inż. Beata Witkowska

TEST REPORT NO. BL-ME 68 / 2023 / G / A

Parameter	Value	Remarks
<p><i>Tensile strength</i> The mean value of the maximum force, N - lengthwise direction individual results - widthwise direction individual results The mean value of the relative elongation at maximum force, % - lengthwise direction individual results - widthwise direction individual results</p>	<p align="center">1699 ± 17 1718; 1701; 1667; 1710; 1699 1530 ± 85 1636; 1466; 1409; 1530; 1609 39,5 ± 1,0 39,3; 38,7; 37,8; 40,8; 40,1 29,0 ± 3,0 32,4; 25,9; 25,6; 30,6; 31,2</p>	PN-EN ISO 1421:2017-02 method 1: strip method tensile tester: Instron 3367, pre-tension: 5 N, width of the sample: 50 mm, number of tested specimens for each: 5, rate of extension: 100 mm/min, distance between clamps: 200 m
<p>The mean value of mass per unit area, g/m² - individual results Coefficient of variation, %</p>	<p align="center">288 ± 1 288; 289; 287; 287; 287 0,9</p>	PN-EN ISO 2286-2:2016-11, point 3 surfaces of samples: 100 cm ²
<p><i>Tear strength</i> The mean value of tear force, N - lengthwise direction individual results - widthwise direction individual results Coefficient of variation, % - lengthwise direction - widthwise direction</p>	<p align="center">78 ± 1 77,6; 78,7; 79,2; 79,9; 76,6 79 ± 2 82,6; 79,3; 76,4; 79,9; 78,4 1,7 2,8</p>	PN-EN ISO 4674-1:2017-02, method A: wings shape of sample, double-tear test, tensile tester: Zwick 1120, number of testing specimens for each direction: 5, rate of extension: 100 mm/min, width of the sample: 150 mm.
<p>The mean value of resistance to water penetration, cm H₂O - individual results</p>	<p align="center">234 ± 12 219; 243, 234; 224; 252</p>	PN-EN ISO 811:2018-07 increase pressure of water: (60 ± 3) cm H ₂ O/min, side of tested specimen – used side water pressure on the test sample exerted from below
<p>Resistance to surface wetting (spray test), degree - sample 1 - sample 2 - sample 3</p>	<p align="center">1 1 1 (complete wetting of the sample surface beyond for dew points)</p>	PN-EN ISO 4920:2013-02 water temperature - 20°C, <u>Assessment scale:</u> degree 5 - no sticking or wetting of the specimen face, degree 0 - complete wetting of the entire face of the specimen.
<p>Tests conditions: Acclimatization and testing according to PN-EN ISO 139:2006 + A1:2012 temp. (20 ± 2)°C, humidity (65 ± 4) %</p>		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
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The end of Test Report

dr inż. Beata Witkowska
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