

LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS
Testing Laboratory accredited by the Polish Centre for Accreditation

TEST CERTIFICATE NO. BM 641.2 / 2018 / G / A

1. **Test ordered by:** „TOPTEXTIL” Sp. z o.o.
30-415 Kraków, ul. Wadowicka 12
2. **Name and description of tested material:** sample - **mattress fabric NAPOLI;**
declared raw materials: 100% Polyester
3. **Date of receiving material for testing:** 2018-12-20
4. **Date of test performance:** 2018-12-28÷31
5. **Samples taken by:** 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: Krystyna Wierus M.Sc. Eng

1. *Test results refer only to the tested material.*
2. *Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.*
3. *Test Certificate 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. *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 $k = 2$.*

Certificate date: 2019-01-03

Number of Certificate copies: 4

Test Certificate handed to:

- 1) „TOPTEXTIL” Sp. z o.o.- 2 copies.,
- 2) Laboratory for Testing Textile Raw Materials and Fabrics (location: 5/15 Brzezinska str.) - 1 copy,
- 3) Laboratory for Testing Textile Raw Materials and Fabrics (location: 118 Gdańska str.) - 1 copy.

Certificate prepared by:

Zofia Mokwińska M.Sc. Eng

Person authorizing the Test Certificate:

Surname and name: Beata Witkowska, Ph. D.

Function: Head of Laboratory
Laboratory of Testing Textile Raw Materials and Fabrics
i Wyrobów Włókienniczych

Signature: **KIEROWNIK**

Beata Witkowska
dr inż. Beata Witkowska

INSTYTUT WŁÓKNIENICTWA
LABORATORIUM BADAŃ I WYROBÓW WŁÓKIENICZYCH
92-103 Łódź, ul. Brzezinska 5/15
Siedziba 90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 419, fax 42 25 34 490

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Parameter	Value	Remarks
Dimensional change after one washing and drying, % -lengthwise direction, % -widthwise direction, %	- 5,5 ± 0,5 - 2,5 ± 0,0	PN-EN ISO 5077:2011 PN-EN ISO 3759:2011 number of washings / washing procedure number / drying procedure according to PN-EN ISO 6330:2012 1 x / 6N at temperature 60°C / procedure A –line dry, number of samples – 3, mass of the samples – 153 g, type of ballast: - III, reference detergent 3, the washer type A, (-) shrinkage, (+) extension.

_____ The end of Test Certificate _____

Person authorizing the Test Certificate

Laboratorium Badań Surowców
 i Wyrobów Włókienniczych
KIEROWNIK

 dr inż. Beata Witkowska

TEST CERTIFICATE No. 7.3 / ODPRAN / BE / 19

Orderer: Toptextil Sp. z o.o.
ul. Wadowicka 12
30-415 Kraków

INSTYTUT
LABORATORIUM BADAŃ EKOLOGII TEKSTYLÓW
I ŚRODOWISKA PRACY
90-520 Łódź, ul. Gdańska 118
tel. 42 25 34 422, fax 42 25 34 490

Testing method: PN-EN ISO 105-C06:2010 Textiles. Tests for colour fastness.
Part C06: Colour fastness to domestic and commercial laundering.

Subject of test: sample – mattress fabric NAPOLI;
declared raw materials: 100% Polyester
Sampled and delivered by orderer, in a proper condition for test.

Test results:

TESTED PARAMETER	Determination [Grading]							
	Change in colour	Staining						
		WO	PAN	PES	PA	CO	CA	CV
Colour fastness to:								
Washing	5	-	-	5	-	5	-	-
Methods number	C1S (60 °C)							
Quantity of steel's small balls	25							
Reference detergent	recommended by ECE							

The test results refer to testing conditions of the method.

The colour fastness rating goes gradually from: rating 5 - no contrast (best rating) to rating 1 - large contrast (worst rating).

Possible values of the gray scale: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

Test carried out by: mgr inż. Agnieszka Kaleta

Sample delivered at: 2019-01-03

Test finished at: 2019-01-09

Authorized Test Certificate:

LABORATORIUM BADAŃ EKOLOGII TEKSTYLÓW
I ŚRODOWISKA PRACY
KLEROWNE
mgr Agnieszka Dalek
09.01.2019

NOTES:

1. The test certificate results only refer to the sample material provided.
2. The test certificate contains 1 page.
3. The test certificate shall not be reproduced, except in full, without the written approval of Testing Laboratory.
4. Orderer shall be responsible for the conformity of product with the test sample, where the test certificate is used.