



Report VNDF 083318.2
Test Report

Applicant

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Austria

Reference

E1600711-001
Mr. Michael Jirka

Application

Determination of the colour fastness of artificial light, maximum force and the crease behaviour

Test material

Blackout fabric "SunSat 2016", black and wine red

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

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Translation

Authorised for Institute
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1 Order

1.1 Chronology

Date	Received	Order
17.05.2016	24.05.2016	Determination of the colour fastness of artificial light, maximum force and the smoothness behaviour.

1.2 Samples

Nr.	Received	Sample Identification
1	24.05.2016	Blackout fabric "SunSat 2016", black
2	24.05.2016	Blackout fabric "SunSat 2016", wine red

(Unless otherwise stated samples are provided by the customer.)

2 Findings / Tests performed

2.1 Description of the specimen

Description of the specimen according to DIN 60 000

Tested sample: 1 and 2

Type of fibre according to DIN ISO 2076	100 % Polyester FR (declaration by the applicant)
Technological description	woven fabric

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2.2 Determination of colour-fastness to artificial light

Test conditions

According to EN ISO 105-B02 (a)
 Test equipment: Xenotest 150 S+
 Exposure method: Methode 2
 Kind of motion: Clocking
 Effective humidity: 40 %
 Max. temperature of the black-panel-thermometer: 48 °C

Test results

Tested sample: 1

Numerical rating of light-fastness: 7

Tested sample: 2

Numerical rating of light-fastness: 7

Note: Light-fastness will be evaluated by a comparative scale, which consists of eight blue woollen fabrics, which are dyed gradated regarding their light-fastness and which will be treated under the same conditions as the specimen. It is given in figures, mark 1 thus represents very low and mark 8 very high light-fastness.

2.3 Determination of maximum force and elongation at maximum force -Strip method

Test conditions

According to EN ISO 13934 Part 1 (a)
 Condition of specimens: conditioned (dry)
 Nominal gauge length: 200 mm
 Rate of extension: 100 mm/min
 Pre-Tension: 5 N
 Width of strips: 50 mm
 Number of specimens: each 5
 Number of tests rejected: 0

Test results

Tested sample: 1

	Warp direction		Weft direction	
	Maximum force	Elongation at maximum force	Maximum force	Elongation at maximum force
Mean value	1500 N	40.0 %	1430 N	22.5 %
Coefficient of variation	3.3 %	2.0 %	1.6 %	4.6 %
Confidence interval (P = 95 %) absolute width	± 60 N	± 1.0 %	± 29 N	± 1.2 %

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2.4 Washing procedure for textile testing

Test conditions

Tested sample: 1

According to EN ISO 6330 (a)

Standard washing machine: Wascator FOM 71 CLS

Washing procedure: 4M - mild washing 40 °C

Total mass of the specimen: 1180 g

Load: 2 kg

Loading fabric: knitted 100 % polyester fabric of textured yarn

Washing detergent: ECE 2 washing detergent

Water hardness: 0 ° dH

Number of washing processes: 5

Drying procedure: Procedure A - Line drying

2.5 Determination of the smoothness of textile fabrics after domestic washing and drying

Test conditions

According to EN ISO 15487 Point 7.4

Washing procedure according to DIN EN ISO 6330 (see 2.4 "Washing procedure for textile testing")

Test results

Tested sample: 1

Evaluation of the smoothness	
Smoothness grade by SA replica equivalents:	Grade 4

Note:

Evaluation: smoothness grades of SA-1 to SA-5

SA-1 = Equivalent to the SA-1 replica. Crumpled, creased and severely wrinkled appearance.

SA-5 = Equivalent to the SA-5 replica. Very smooth, pressed, finished appearance.

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3 Remarks

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