



## Report VNDF 083318.2 Test Report

### Applicant

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### Reference

E1600711-001  
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### 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 graduated 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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