



Report VN735 123709.4 Test Report

Applicant

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Reference

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Application

Determination of colour fastness to chlorinated water according to EN ISO 105-E03 and colour fastness to urine in accordance with EN ISO 105-E01.

Test material

"Mammut"

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
20.10.2016	21.10.2016	Determination of colour fastness to chlorinated water according to EN ISO 105-E03 and colour fastness to urine in accordance with EN ISO 105-E01.

1.2 Samples

Nr.	Received	Sample Identification
1	21.10.2016	"Mammut"

(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

Test results

Tested sample: 1

Type of fibre according to DIN 60 001 part 1 and DIN ISO 2076	100% PVC (declaration by the applicant)
Technological description	coated knitted fabric

2.3 Determination of colour fastness to chlorinated water

Test conditions

According to: EN ISO 105 E03
 Use quantity of active chlorine: 20 mg/l
 Temperature: $27 \pm 2^\circ \text{C}$
 Exposure time: 1 h

Test results

Tested sample: 1

Change in colour: Fastness-rating **4-5**

2.4 Determination of colour fastness to urine

Test conditions

In accordance with: EN ISO 105 E01
 Reagent: artificial urine solution
 Note: In contrast to EN ISO 105 E01, an artificial urine solution was used instead of quality 3 water.

Test results

Change in colour:	Fastness-rating: 4-5
Staining of adjacent fabric:	
- Adjacent fabric 1: Polyamide	Fastness-rating: 4-5
- Adjacent fabric 2: Cotton	Fastness-rating: 4-5

2.5 Comment on assessment of colour fastness

The assessment of change of colour is based on the extent of the visible contrast between treated and untreated specimen. This difference in coloration will be visually compared with the contrasts defined by the five pairs of neutral grey colour on the grey scale „Change in colour“ according to ISO 105-A02. Each step of the grey scale corresponds to a fastness-rating, starting with numerical rating 5 (no contrast) up to numerical rating 1 (maximum contrast).

The visual colour evaluation is performed by examiners with a normal colour vision (colour vision test according to Prof. Dr. Ishihara) and excellent colour discrimination (colour vision test according to Farnsworth-Munsell).

3 Remarks

Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or the ÖTI.

The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product produced unchanged.

Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided.

Without explicit written other agreement testing is destructive and the sample material is transferred to the property of ÖTI, which is entitled to freely decide on storage and disposal.

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The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

Quality management, Accreditation and Notification

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.

The ÖTI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation as Testing Laboratory was provided by Akkreditierung Austria (bmwfw). The scope of accreditation is listed on www.bmwfw.gv.at/akkreditierung.

In this report test conditions of individual accredited test procedures are marked with (a).

According to the decree on the use of the accreditation mark ("AkkZV") the accreditation mark is only to be used by the accredited Conformity Assessment Body.

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End of report