



Report VN710 149003.4 Test Report

Applicant

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Reference

Application

Determination of the colour fastness to light, colour fastness to rubbing and resistance to chemicals.

Test material

„DOT DESIGN STUDIO“

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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1 Order

1.1 Chronology

Date	Received	Order
06.11.2018	04.12.2018	Determination of the colour fastness to light, colour fastness to rubbing and resistance to chemicals.

1.2 Samples

Nr.	Received	Sample Identification
1	04.12.2018	„DOT DESIGN STUDIO – Design red“
2	04.12.2018	„DOT DESIGN STUDIO – Design blue“
3	04.12.2018	„DOT DESIGN STUDIO – Design print pictures A“
4	04.12.2018	„DOT DESIGN STUDIO – Design print pictures B“

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

2 Findings / Tests performed

2.1 Description of building product - Floor covering

Test results

Tested sample: 1-4

Manufacturing procedure:	woven (pile)
Material of pile/wear layer:	100% Polyester (according to the specification by the applicant)
Structure of use surface:	cut pile
Colouring:	multicolored patterned
Backing:	finished
Dimensions:	rolls
Type of floor covering:	Pile carpet according to EN 1307



Sample 1



Sample 2



Sample 3



Sample 4

2.2 Determination of colour-fastness to artificial light

Test conditions

According to EN ISO 105-B02
 Exposure method: Method 2
 Kind of motion: Clocking
 Effective humidity: 40 %
 Temperature of the black-panel-thermometer: 35°C

Test results

Sample	Numerical rating of light-fastness
Sample 1 – „red basic tone“	6
Sample 1 – „dark blue basic tone“	7
Sample 2 – „dark blue border“	6-7
Sample 2 – „light blue with flowers“	6-7
Sample 3 – „petrol colour“	5
Sample 4 – „orange colour“	4

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 colour fastness to rubbing

Test conditions

According to EN ISO 105-X12
 Used rubbing finger: square (19mm x 25,4 mm)
 Downward force: (9 ± 0,2) N
 Percentage of soak (only wet rubbing): 100%

Test results

Tested sample:	Staining of the cotton rubbing cloth	
Sample 1 – „red basic tone“	dry rubbing	Numerical rating: 4-5
	wet rubbing	Numerical rating: 4
Sample 1 – „dark blue basic tone“	dry rubbing	Numerical rating: 4-5
	wet rubbing	Numerical rating: 4
Sample 2 – „dark blue border“	dry rubbing	Numerical rating: 5
	wet rubbing	Numerical rating: 5
Sample 2 – „light blue with flowers“	dry rubbing	Numerical rating: 5
	wet rubbing	Numerical rating: 5
Sample 3 – „petrol colour“	dry rubbing	Numerical rating: 4-5
	wet rubbing	Numerical rating: 4-5
Sample 4 – „orange colour“	dry rubbing	Numerical rating: 5
	wet rubbing	Numerical rating: 5

Note: Staining of the adjacent fabric will be evaluated with the grey scale for assessing staining according to ISO 105-A03. The steps of the grey scale are within the ratings „5“ - no contrast (non-staining of the adjacent fabric) and „1“ - maximum contrast (strong staining of the adjacent fabric).

2.4 Resistance to chemicals

Test conditions

Based on ÖTN 101

Bleaching agents:

- Chlorite solution with 35g/l active chlorine and 5 g/l sodium hydroxide
- Hydrogen peroxide solution with 30g/l hydrogen peroxide 35% and 10g/l sodium hydroxide
- Hydrosulfite solution with 1,5g/l of sodium dithionite and 0,05 ml/l of formic acid 85%

Procedure: 2ml of each bleaching agent was applied to the specimen, after exposure times of 10 minutes and 24 h those agents were dabbed out with water.

Type of assessment light: D65 (artificial day-light)

Test results

Agent: Chlorite solution with 35g/l active chlorine and 5 g/l sodium hydroxide

Sample	Visibility of change in colour	
	after 10 minutes	after 24 hours
Sample 1 – „red basic tone“	visible	conspicuous
Sample 1 – „dark blue basic tone“	conspicuous	conspicuous
Sample 2 – „dark blue border“	conspicuous	conspicuous
Sample 2 – „light blue with flowers“	conspicuous	conspicuous
Sample 3 – „petrol colour“	conspicuous	conspicuous
Sample 4 – „orange colour“	conspicuous	conspicuous

Agent: Hydrogen peroxide solution with 30g/l hydrogen peroxide 35% and 10g/l sodium hydroxide

Sample	Visibility of change in colour	
	after 10 minutes	after 24 hours
Sample 1 – „red basic tone“	not visible	not visible
Sample 1 – „dark blue basic tone“	not visible	not visible
Sample 2 – „dark blue border“	not visible	not visible
Sample 2 – „light blue with flowers“	not visible	not visible
Sample 3 – „petrol colour“	not visible	not visible
Sample 4 – „orange colour“	not visible	not visible

Agent: Hydrosulfite solution with 1,5g/l of sodium dithionite and 0,05 ml/l of formic acid 85%

Sample	Visibility of change in colour	
	after 10 minutes	after 24 hours
Sample 1 – „red basic tone“	not visible	not visible
Sample 1 – „dark blue basic tone“	not visible	not visible
Sample 2 – „dark blue border“	not visible	not visible
Sample 2 – „light blue with flowers“	not visible	not visible
Sample 3 – „petrol colour“	not visible	not visible
Sample 4 – „orange colour“	not visible	not visible

3 Remarks

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