


Version: 1	Date : 03.11.2015	 <i>Testing and Engineering for Surface-, Cleaning- and Textile-Technology</i>
Test Report 68430		
Created by: Andrea Freda Proofed by: Agnes Beil	Page 1 of 5	
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Weber & Leucht GmbH · Am Röhlingsberg 20 · D-36043 Fulda

Arcora International GmbH

Marsstr. 9
85609 Aschheim

Employer	Sabine Antoni
Date of order	31.08.2015
Receipt of sample	01.09.2015 and 30.09.2015
WO-No.	999-4 - 999-7
Sample material	Microfiber cloth for swanlabel approval Arcotex Super-Line, 4 colors Art: ASPL3232BL, blau Art: ASPL3232GR, grün Art: ASPL3232RO, rosa Art: ASPL3232GE, gelb
Test assignment	Nordic Swan Testing: Products for professional use R35 removal dust and dirt (cleaning efficiency) R38 Absorption according to ISO 9073-12 ^x R20 Dimensional Changes ISO 5077 R36 Hygiene Test – Microbiological Cleaning Test ^u R21 Colour Fastness (ISO 105-C06) R37 Abrasion Test according to DIN EN ISO 12947-1 ISO DIS 6330 – 50 washes at 60 °C
Date of analysis	07.09. – 02.11.2015
Test result	Following page (s)

The accreditation is valid for the scope of accreditation listed in the certificate system. Non-accredited methods are characterized by ^x.


^u Analysis carried out by sub-order

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Corporate Member

TESTRESULTS

1. R35 Removal Dust and Dirt

Removal of dust and dirt after washing, DIN EN ISO 6330 at 60°C


Art: ASPL3232BL, blau

Surface	Dirt	Use	Cleaning efficiency	Test Criteria
Ceramic Tile SF11	Dust A23	Damp	87%	≥85%
PVC-flooring PL-03	Dust A23	Damp	93%	≥85%
Ceramic Tile SF 11	Muddy Dirt A05	Damp	100%	≥85%
PVC-flooring PL-03	Muddy Dirt A05	Damp	100%	≥85%

2. R38 – absorption Test performed on a new textile^x

Art: ASPL3232BL, blau

DAC-Value g/g	Test Criteria DAC g/g	MAR-Value g/s	Test Criteria MAR g/s
6,3	Minimum 2,5	3,5	> 0,6

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3. R20 – Dimensional Change: ISO 5077 after 3 washes and drying
Method: 1N, 95°C

Art: ASPL3232BL, blau

Average of three tests

	Length	Width
Dimensional Change (%)	-2,4	-4,4

4. R21 – colour fastness to washing:
(Staining min. 3-4 / change in colour min. 3-4)

Colour Fastness to domestic and commercial laundering (ISO 105-C06:2010)
DIN EN ISO 105-C06:2010


Adjacent fabric: Multifire adjacent fabric Type „TV“
Testing method: C1S
Temperature: 60°C
Detergent: ECE-detergent with phosphate
Using of steel balls: yes

Article/ Colour	Staining CV Note*	Staining PAN Note*	Staining PES Note*	Staining PA Note*	Staining CO Note*	Staining CTA Note*	Change in Colour Note*
Col. Blau 60°C	4-5	5	4-5	3-4	4-5	4-5	4
Col. Grün 60°C	4-5	5	4-5	3-4	4-5	4	4-5
Col. Rosa 60°C	4-5	4-5	4	3	4-5	4	4
Col. Gelb 60°C	4	4-5	4	2-3	4	4	3-4

*The final mark is performed instrumentally by ISO 105-A04 und ISO 105-A05.

(Note 1 = strong change in colour to Note 5= no change in colour)

CV - Viscose
PAN - Polyacryl
PES - Polyester
PA - Polyamide
CO - Cotton
CTA - Triacetate

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5. Abrasion Test performed on a new textile

Art: ASPL3232BL, blau

Surface	Pressure/Cycles	Gloss Differential	Test Criteria
Polycarbonate (Makrolon)	9kPa, 25.000 cycles	9,7	< 20

6. R36 Hygiene Test^U


Art: ASPL3232BL, blau

Standardmethod of the VAH for testing chemical disinfectants (2001/09):

According to VAH Method 14: Surface Disinfectant – practice test on non-porous surfaces „with mechanics“
– bactericidal and fungicidal activity

Active ingredient: ---
 Neutralizing agent: ----
 Test temperature: 20°C
 Loading substance: 3,0 g/l BSA + 3 ml/l Bovine serum albumine
 Diluting agent: Water standardized hardness (WSH)
 Incubation: 37°C/ 24 h
 Counting procedures: pour plate method
 Bacterial strain: *Staphylococcus aureus* ATCC 6538
 Escherichia coli ATCC 10536

	Log reduction	Reduction of bacterias%
E. coli	3,84	99,99%
S. Aureus	1,92	98,79%

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Dipl.-Ing.(FH) Stephanie Leucht

DATE/SIGNATURE/STAMP