



TEST REPORT

Client: Gabriel
Hjulgagervej 55
Postbox 59
DK-9100 Aalborg
Denmark

Entry No: 95254-04

Date received: 16/02/2018

Client's Description: Sample of fabric: Harmony, Colour: 3101

Test Required: Abrasion and Seam Slippage in accordance with BS EN 14465. Colour Fastness to Rubbing

Conditioning: In accordance with BS EN ISO 139: 2005 for a minimum of 24 hours at 65+/-4%, Relative Humidity, 20+/-2°C

Date Tests Completed: 22/03/2018

Abrasion Resistance: BS EN ISO 12947-2: 1998 / AC 2008 according to BS EN 14465: 2003

The tests were carried out using a pressure of 12 +/- 0.3 kPa
The criterion for judging end point was three threads broken

Specimen 1	220,000 rubs
Specimen 2	220,000 rubs
Specimen 3	200,000 rubs
Specimen 4	210,000 rubs
Overall Result	200,000 rubs

Change in colour after 3,000 rubs: **4-5**

Observation Technique: 10 fold magnification
Type of Fabric: Flat Woven

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This is hereby certified to be a correct return of the tests made of the items referred to herein

Vivienne Brockbank
Technician
09 April 2018

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
 - ❖ Tests marked ^N in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
 - ❖ Tests marked ^F in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
 - ❖ Tests marked ^S in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
 - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
 - ❖ Uncertainty budgets for test methods contained within this report are available on request.
- This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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Seam Slippage: BS EN ISO 13936-2: 2004

	<u>Mean Seam opening</u>
Warp Way Seam	3 mm
Weft Way Seam	3 mm

Colour Fastness to Rubbing: BS EN ISO 105–X12: 2016^F

	<u>Dry</u>	<u>Wet</u>
Warp Way	5	5
Weft Way	5	5
<u>Change in Colour</u>	<u>Dry</u>	<u>Wet</u>
Warp Way	5	5
Weft Way	5	5

Note: Change in colour is not a requirement of the method but was carried out at the request of the client.

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